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OM nucleic - nucleic search, using sw model

Run on: November 21, 2002, 03:44:44 ; Search time 288 Seconds
(without alignments)
117.292 Million cell updates/sec

Title: US-09-716-320-3

Perfect score: 15
Sequence: 1 tccatggtctact 15

Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 2185239 seqs, 1125999159 residues

Total number of hits satisfying chosen parameters: 2390332

Minimum DB seq length: 0
Maximum DB seq length: 100

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : N_Geneseq_101002.*

- 1: /SID22/gcgdata/geneseq/geneseq-emb1/NA1980.DAT.*
- 2: /SID22/gcgdata/geneseq/geneseq-emb1/NA1981.DAT.*
- 3: /SID22/gcgdata/geneseq/geneseq-emb1/NA1982.DAT.*
- 4: /SID22/gcgdata/geneseq/geneseq-emb1/NA1983.DAT.*
- 5: /SID22/gcgdata/geneseq/geneseq-emb1/NA1984.DAT.*
- 6: /SID22/gcgdata/geneseq/geneseq-emb1/NA1985.DAT.*
- 7: /SID22/gcgdata/geneseq/geneseq-emb1/NA1986.DAT.*
- 8: /SID22/gcgdata/geneseq/geneseq-emb1/NA1987.DAT.*
- 9: /SID22/gcgdata/geneseq/geneseq-emb1/NA1988.DAT.*
- 10: /SID22/gcgdata/geneseq/geneseq-emb1/NA1989.DAT.*
- 11: /SID22/gcgdata/geneseq/geneseq-emb1/NA1990.DAT.*
- 12: /SID22/gcgdata/geneseq/geneseq-emb1/NA1991.DAT.*
- 13: /SID22/gcgdata/geneseq/geneseq-emb1/NA1992.DAT.*
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- 15: /SID22/gcgdata/geneseq/geneseq-emb1/NA1994.DAT.*
- 16: /SID22/gcgdata/geneseq/geneseq-emb1/NA1995.DAT.*
- 17: /SID22/gcgdata/geneseq/geneseq-emb1/NA1996.DAT.*
- 18: /SID22/gcgdata/geneseq/geneseq-emb1/NA1997.DAT.*
- 19: /SID22/gcgdata/geneseq/geneseq-emb1/NA1998.DAT.*
- 20: /SID22/gcgdata/geneseq/geneseq-emb1/NA1999.DAT.*
- 21: /SID22/gcgdata/geneseq/geneseq-emb1/NA2000.DAT.*
- 22: /SID22/gcgdata/geneseq/geneseq-emb1/NA2001A.DAT.*
- 23: /SID22/gcgdata/geneseq/geneseq-emb1/NA2001B.DAT.*
- 24: /SID22/gcgdata/geneseq/geneseq-emb1/NA2002.DAT.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	15	100.0	15	21	AA290403
2	15	100.0	19	22	AAF98894
3	15	100.0	19	24	ABL38703
c 4	15	100.0	24	14	AAQ52043
c 5	15	100.0	70	20	AA80767
6	14	93.3	15	19	AAV40434
7	14	93.3	51	22	AAI75566
c 8	13.4	89.3	24	19	AAV22685
c 9	13.4	89.3	29	22	AA509199
					Phosphorothioated
					Immunostimulatory
					Immunostimulatory
					Breast cancer spec
					Promoter region of
					US-1 antisense oli
					Human silent SNP c
					PCR primer HN40 us

10	13	86.7	14	16	AAQ2762	c-erbB-2 antisense
11	13	86.7	16	19	AAV48736	Erbb-2 gene antise
c 12	13	86.7	19	21	AAA53776	Forward primer for
c 13	13	86.7	19	22	AAI15845	Human HER-2 ECD co
c 14	13	86.7	19	24	AAI32531	HER-2 extracellular
15	13	86.7	20	20	AAV84090	PCR primer MTL(P)
c 16	13	86.7	20	22	AA50677	Human consensus se
17	13	86.7	20	22	AAF26607	Maize metallothion
c 18	12.4	82.7	20	21	AAV4062	Reverse PCR primer
c 19	12.4	82.7	22	20	AAV08115	Primer Vbeta5 for
c 20	12.4	82.7	24	24	ABN83663	Gamma-glutamylcyst
c 21	12.4	82.7	47	20	AAZ01091	Probe for human PG
c 22	12.4	82.7	50	22	AAI77430	Human silent SNP c
c 23	12.4	82.7	51	22	AAI75567	Human silent SNP c
c 24	12.4	82.7	51	22	AAI77426	Human silent SNP c
c 25	12.4	82.7	51	22	AAI77427	Human silent SNP c
c 26	12.4	82.7	51	22	AAI77428	Human silent SNP c
c 27	12.4	82.7	60	24	ABN33270	Human spliced tran
c 28	12.4	82.7	65	24	ABN54380	Mouse spliced tran
c 29	12.4	82.7	98	24	ABN60554	Human cancer relat
c 30	12	80.0	22	19	AAV17078	Oligonucleotide 6
c 31	12	80.0	27	19	AAV36673	Nucleotide sequenc
c 32	12	80.0	53	19	AAV36662	Nucleotide sequenc
c 33	12	80.0	60	24	ABN48619	Human spliced tran
c 34	12	80.0	62	19	AAV36663	Nucleotide sequenc
c 35	12	80.0	65	24	ABN54104	Mouse spliced tran
c 36	12	80.0	65	24	ABN54738	Mouse spliced tran
c 37	12	80.0	97	19	AAV17076	Oligonucleotide 4
c 38	11.8	78.7	19	24	AAI32361	Human LSG 414885 e
c 39	11.8	78.7	20	21	AAI12081	Human ICAM-1 antis
c 40	11.8	78.7	20	24	ABLA5607	Human chromosome 2
c 41	11.8	78.7	22	21	AA52945	Mouse EphA4 gene p
c 42	11.8	78.7	28	21	ABK12010	Thrombopoietin rel
c 43	11.8	78.7	32	21	AAA52982	HCV-1a E2 forward
c 44	11.8	78.7	33	24	ABL55542	Haploid sperm cell
c 45	11.8	78.7	42	21	AAI12095	Human ICAM-1 DNA f

ALIGNMENTS

RESULT 1
AAZ90403
ID AAZ90403 standard; DNA; 15 BP.
XX
AC AAZ90403;
XX
DT 30-MAY-2000 (first entry)
XX
DE Phosphorothioated ASO directed against HER-2 gene.
XX
KW Radiation; drug resistance; HER-2; raf-1; radioresistant; tumour;
KW cancer; restenosis; osteoarthritis; neurological; pre-eclampsia;
KW intestinal abnormality; antisense; ss.
XX
OS Homo sapiens.
XX
PN #S6027892-A;
XX
PD 22-MAY-2000;
XX
PF 16-DEC-1997; 97US-0991830.
XX
PR 30-DEC-1996; 96US-0034160.
XX
PA (CHAN/) CHANG E H.
XX (PIRO/) PIROLLO K F.
XX
PI Chang EH, Pirollo KF;
XX WPI; 2000-194828/17.
XX
PT Reducing radiation or drug resistance in a cell comprises introduction

Double?

PT of antisense nucleic acid for treating or diagnosing cancer,
PT restenosis, osteoarthritis, neurological and intestinal abnormalities
PS and pre-eclampsia -
XX
XX Claim 4; Column 9; 18pp; English.
XX
CC The invention provides a method for reducing radiation or drug resistance
CC of a cell, in vitro, which does not overexpress HER-2 or raf-1 genes.
CC The method comprises introducing to the cell an antisense nucleic acid
CC comprising a segment complementary to HER-2 or raf-1. The method is
CC useful for increasing drug and radiation sensitivity in a cell,
CC particularly in the treatment of radioresistant tumours. The antisense
CC nucleic acids are useful for treating or diagnosing cancer, restenosis,
CC osteoarthritis, neurological and intestinal abnormalities and
CC pre-eclampsia. The present sequence represents a phosphorothioated
CC antisense oligo (ASO) directed against HER-2 gene.
XX
XX Sequence 15 BP; 2 A; 5 C; 3 G; 5 T; 0 other;
SQ
Query Match 100.0%; Score 15; DB 21; Length 15;
Best Local Similarity 100.0%; Pred. No. 72;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 TCCATGGTGCTCACT 15
Db 1 TCCATGGTGCTCACT 15
RESULT 2
ID AAF98894 standard; DNA; 19 BP.
XX AAF98894;
XX
XX 12-JUN-2001 (first entry)
XX
XX Immunostimulatory nucleic acid #10.
XX
XX Vaccine; cytostatic; virucidal; bactericidal; fungicidal; anti-parasitic;
XX immunostimulatory; tumour; viral infection; bacterial infection;
XX fungal infection; parasitic infection; cancer; asthma;
XX infectious disease; allergy; immune deficiency; phosphorothioate; ss.
XX Synthetic.
XX
XX WO200122972-A2.
XX
XX 05-APR-2001.
XX
XX 25-SEP-2000; 2000WO-US26383.
XX
XX 25-SEP-1999; 99US-0156113.
XX
XX 27-SEP-1999; 99US-0156135.
XX
XX 23-AUG-2000; 2000US-0227436.
XX
XX (IOWA) UNIV IOWA RES FOUND.
XX (COLE-) COLEY PHARM GMBH.
XX
XX Krieg AM, Schetter C, Vollmer J;
XX
XX WPI; 2001-273485/28.
XX
XX Vaccinating against tumors, infectious diseases, allergies and asthma
XX using immunostimulatory py-rich and TG nucleic acids;
XX
XX Disclosure; Page 38; 338pp; English.
XX
XX The present invention relates to a method for stimulating an immune
XX response. The method comprises administering an immunostimulatory nucleic
XX acid to a non-rodent subject in sufficient quantity to stimulate an
XX immune response. The present sequence is one such immunostimulatory
XX nucleic acid. The immunostimulatory nucleic acids can be pyrimidine rich
XX (py-rich) or thymidine (T) rich. The method is used to vaccinate subjects

CC against tumour antigens, viral antigens (e.g. herpesviridae, retroviridae
CC and/or orthomyxoviridae), bacterial antigens (e.g. toxoplasma,
CC haemophilus, campylobacter, clostridium, Escherichia coli and/or
CC staphylococcus), fungal antigens and/or parasitic antigens. The method is
CC also useful for preventing cancer, asthma, infectious disease, allergy or
CC immune deficiency. The present sequence can also be used to redirect a
CC Th2 to a Th1 immune response and to activate immune cells.
CC Note: the present sequence may have a phosphorothioate backbone.
XX
XX Sequence 19 BP; 3 A; 6 C; 5 G; 5 T; 0 other;
SQ
Query Match 100.0%; Score 15; DB 22; Length 19;
Best Local Similarity 100.0%; Pred. No. 74;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 TCCATGGTGCTCACT 15
Db 4 TCCATGGTGCTCACT 18
RESULT 3
ID ABL38703 standard; DNA; 19 BP.
XX ABL38703;
XX
XX 16-APR-2002 (first entry)
XX
XX Immunostimulatory nucleic acid SEQ ID NO: 66.
XX
XX Antibody-induced cell lysis; cancer; immunostimulatory; CD20;
XX angiogenesis; metastasis; cytostatic; phosphorothioate backbone; ss.
XX Synthetic.
XX
XX Key Location/Qualifiers
XX modified_base 1.19
XX /*tag= a
XX /mod_base= OTHER
XX /note= "phosphorothioate backbone"
XX
XX WO200197843-A2.
XX
XX 27-DEC-2001.
XX
XX 22-JUN-2001; 2001WO-US20154
XX
XX 22-JUN-2000; 2000US-213346P.
XX
XX (IOWA) UNIV IOWA RES FOUND.
XX
XX Weiner G, Hartmann G;
XX
XX WPI; 2002-154611/20.
XX
XX Treating or preventing cancer, such as basal cell carcinoma, comprises
XX administering immunostimulatory nucleic acids that induce expression of
XX cell surface antigens and antibodies to a subject having or at risk of
XX developing cancer
XX
XX Disclosure; Page 11; 312pp; English.
XX
XX The present invention relates to methods for treating or preventing
XX cancer, involving administering to a subject having or at risk of
XX developing cancer immunostimulatory nucleic acids that induce expression
XX of cell surface antigens and antibodies. The methods are useful for
XX treating or preventing cancer such as basal cell carcinoma, bladder
XX cancer, bone cancer, brain and central nervous system (CNS) cancer,
XX breast cancer, cervical cancer, colon and rectum cancer, connective
XX tissue cancer, oesophageal cancer, eye cancer, kidney cancer, larynx
XX cancer, leukaemia, liver cancer, lung cancer, Hodgkin's lymphoma,
XX non-Hodgkin's lymphoma, melanoma, myeloma, oral cavity cancer, ovarian
XX cancer, pancreatic cancer, prostate cancer, rhabdomyosarcoma, skin

CC cancer, stomach cancer, testicular cancer, and uterine cancer. The
 CC present sequence is an immunostimulatory oligonucleotide described in
 CC the exemplification of the invention.

XX Sequence 19 BP; 3 A; 6 C; 5 G; 5 T; 0 other;

Query Match 100.0%; Score 15; DB 24; Length 19;
 Best Local Similarity 100.0%; Pred. No. 74;
 Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCCATGGTGCTCACT 15
 |||||
 DB 4 TCCATGGTGCTCACT 18

RESULT 4
 AAQ52043/c
 ID AAQ52043 standard; RNA; 24 BP.

AC AAQ52043;
 26-MAY-1994 (first entry)

DE Breast cancer specific mRNA ribozyme cleavable nucleotide (159).

KW Multiple drug resistance; mdr-1; ribozyme; membrane protein; liver;
 KW resistance; chemotherapeutic agent; colchicine; doxorubicin; colon;
 KW actinomycin D; vinblastine; small intestine; kidney; adrenal gland;
 KW adenocarcinoma; bowel; transformed phenotype; promyelocytic leukemia;
 KW human; chronic myelogenous leukemia; CML; follicular lymphoma;
 KW B-cell acute lymphocytic leukemia; breast cancer; colon carcinoma;
 KW neuroblastoma; lung cancer; genetic drift; mutation; hammerhead motif;
 KW hairpin; hepatitis delta virus; group I intron; RNaseP, ss.

OS Homo sapiens

PN W09323057-A

XX 25-NOV-1993.

PD

XX

PF 13-MAY-1993; 93WO-US04573.

PR 14-MAY-1992; 92US-0882822.

PR 14-MAY-1992; 92US-0882888.

PR 26-AUG-1992; 92US-0936110.

PR 26-AUG-1992; 92US-0936421.

PR 26-AUG-1992; 92US-0936422.

PR 26-AUG-1992; 92US-0936531.

PR 26-AUG-1992; 92US-0936532.

PR 07-DEC-1992; 92US-0987131.

PR 19-JAN-1993; 93US-0006122.

PR 19-JAN-1993; 93US-0008910.

XX (Ribo-) ribozyme PHARM INC.

XX Draper KG, Thompson JD;

XX WPI; 1993-386203/48.

DR

XX New enzymatic RNA molecules (ribozymes) - which cleave mRNA

XX associated with tumours or mRNA expressed from gene encoding

XX multiple drug resistance

XX Claim 3; Fig 8; 69pp; English.

XX The sequences given in AAQ51825-2266 represent areas of mRNAs which are

XX associated with development or maintenance of chronic myelogenous

XX leukemia (CML), promyelocytic leukemia, Burkitt's lymphoma, or

XX acute lymphocytic leukemia, follicular lymphoma, B-cell acute

XX lymphocytic leukemia, breast cancer, colon carcinoma, neuroblastoma

XX and lung cancer. The full length mRNAs containing these target

XX sequences, encode aberrant cellular proteins which are able to control

XX cellular proliferation and are directly linked to a leukemic

CC phenotype. These target sequences are identified by the ribozyme of
 CC the invention. The ribozymes is formed in a hammerhead motif, but may
 CC also be formed in the motif of a hairpin, hepatitis delta virus, group
 CC I intron or RNaseP-like RNA. These ribozymes may be used to inhibit
 CC the development or expression of a transformed phenotype in man and
 CC other animals by modulating expression of the corresponding gene.
 CC cleavage of target mRNAs expressed in pre-neoplastic and transformed
 CC cells elicits inhibition of the transformed state. Multiple drug
 CC resistance (mdr-1) mRNA specific ribozymes remove the mechanism of
 CC drug resistance used by transformed cells and thus enhances drug
 CC therapies for tumours. The ribozymes may also be used to study
 CC genetic drift and mutations within cells.

XX Sequence 24 BP; 6 A; 7 C; 8 G; 3 U; 0 other;

Query Match 100.0%; Score 15; DB 14; Length 24;

Best Local Similarity 100.0%; Pred. No. 76;

Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCCATGGTGCTCACT 15

|||||

DB 21 TCCATGGTGCTCACT 7

RESULT 5

AA80767/c

ID AA80767 standard; DNA; 70 BP.

XX AA80767;

AC

XX 26-OCT-1999 (first entry)

DT

XX

DE Promoter region of HER-2 DNA target sequence.

XX

XX HER-2; c-erb-B2; target sequence; antisense molecule; HERMYC1; HERMYC2;

XX HERMYC1R; HERMYC2R; breast cancer; c-myc; promoter region; HER 5';

XX topological linkage; padlock DNA; malignancy; metastasis; tumour;

XX transcription factors; gene therapy; cultured cell; amplification;

XX antisense technology; therapeutic modulation; ss.

XX

OS Homo sapiens

XX

XX Key

FT misc_binding

FT

FT Location/Qualifiers

FT 6..20

FT /*tag= a

FT /bound_moiety= "HERMYC1 or HERMYC1R antisense molecule"

FT /note= "Forms a duplex in the presence of HERMYC1 in

FT AA80768 or HERMYC1R antisense molecule in AA80770"

FT 37..50

FT /*tag= b

FT /bound_moiety= "HERMYC2 or HERMYC2R antisense molecule"

FT /note= "Forms a duplex in the presence of HERMYC2 in

FT AA80769 or HERMYC2R antisense molecule in AA80771"

FT

XX W09909045-A1.

XX

XX 25-FEB-1999.

XX

XX 20-AUG-1998; 98WO/US17268.

XX

XX 20-AUG-1997; 97US-0056742.

XX (SOMA-) SOMAGENTICS INC.

XX Johnston BH, Kazakov SA, Kisich KO;

XX WPI; 1999-228889/19.

XX A new antisense molecule which topologically links to target mRNA

XX Example 5; Fig 8; 13app; English.

XX The present sequence is the 5'promoter region of HER-2 oncogene, that

backwards sequence ??
 target of ribozyme ??

Promoter region of HER-2 DNA target sequence.

HER-2; c-erb-B2; target sequence; antisense molecule; HERMYC1; HERMYC2;
 HERMYC1R; HERMYC2R; breast cancer; c-myc; promoter region; HER 5';
 topological linkage; padlock DNA; malignancy; metastasis; tumour;
 transcription factors; gene therapy; cultured cell; amplification;
 antisense technology; therapeutic modulation; ss.

XX Homo sapiens

XX Key

FT misc_binding

FT

FT Location/Qualifiers

FT 6..20

FT /*tag= a

FT /bound_moiety= "HERMYC1 or HERMYC1R antisense molecule"

FT /note= "Forms a duplex in the presence of HERMYC1 in

FT AA80768 or HERMYC1R antisense molecule in AA80770"

FT 37..50

FT /*tag= b

FT /bound_moiety= "HERMYC2 or HERMYC2R antisense molecule"

FT /note= "Forms a duplex in the presence of HERMYC2 in

FT AA80769 or HERMYC2R antisense molecule in AA80771"

FT

XX W09909045-A1.

XX

XX 25-FEB-1999.

XX

XX 20-AUG-1998; 98WO/US17268.

XX

XX 20-AUG-1997; 97US-0056742.

XX (SOMA-) SOMAGENTICS INC.

XX Johnston BH, Kazakov SA, Kisich KO;

XX WPI; 1999-228889/19.

XX A new antisense molecule which topologically links to target mRNA

XX Example 5; Fig 8; 13app; English.

XX The present sequence is the 5'promoter region of HER-2 oncogene, that

CC undergoes genetic alterations along with c-myc gene and is associated
 CC with aggressive breast cancer and poor prognosis. Overexpression of
 CC HER-2 gene has been shown to enhance malignancy and metastasis.
 CC Regression of HER-2 in mouse tumours leads to suppression of tumour
 CC growth and longer life of the animal. This can be done by using padlock
 CC DNAs, HERMYC1, HERMYC1R, HERMYC2 and HERMYC2R, that target a G-rich
 CC sequence in the promoter region. It inhibits binding of transcription
 CC factors. This sequence can be used as a target sequence in antisense
 CC technology for therapeutic modulation of gene expression in cultured
 CC cells and whole animals, for gene function analysis and target
 CC validation for gene therapy and for the detection and amplification of
 CC nucleic acids.

SQ Sequence 70 BP; 6 A; 25 C; 26 G; 13 T; 0 other;

Query Match 100.0%; Score 15; DB 20; Length 70; Indels 0; Gaps 0;
 Best Local Similarity 100.0%; Pred. No. 85;
 Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCCATGGTGTCTACT 15

Db 28 TCCATGGTGTCTACT 14

RESULT 6

AAV40434
 ID AAV40434 standard; DNA; 15 BP.

AC AAV40434;

DT 28-SEP-1998 (first entry)

DE US-1 antisense oligonucleotide used to down regulate ERBB2 oncogene.

XX Antisense oligonucleotide; down regulate; erbB-2; oncogene;

KW tyrosine kinase; breast cancer; radioisotope; hybridisation; probe;

KW US-1; US-3; US-4; US-5; UT-1; US-D; SC-3; TRACER; ss.

XX Synthetic.

OS Homo sapiens.

XX WO9820168-A1.

PN 14-MAY-1998.

XX 03-NOV-1997; 97WO-US20910.

PF 04-NOV-1996; 96US-0740821.

XX (UYDU-) UNIV DUKE.

PA Inglehart JD, Marks JR, Vaughn JP;

PI WPI; 1998-286977/25.

DR Antisense oligonucleotides that down regulate the erbB-2 oncogene -

XX useful to inhibit ERBB2 tyrosine kinase receptor expression in

PT cancer cells to treat epithelial cell, breast, ovarian, lung or

PT colon cancer

XX Example 6; Page 15; 31pp; English.

PS The antisense oligonucleotides AAV40432-V40439 were used to down

XX regulate the erbB-2 oncogene. This oncogene codes for a 185kd tyrosine

CC kinase linked transmembrane protein which in 30-50% of primary breast

CC cancers is overexpressed. The oligonucleotides are able to inhibit the

CC overexpression of ERBB2 tyrosine kinase receptor in a cell, which can be

CC done by targeting the antisense oligonucleotides to the erbB-2 oncogene.

CC By labelling the oligonucleotides with, for example, a radioisotope,

CC they can also be used as hybridisation probes to detect the ERBB2 gene.

CC The oligonucleotides were designated the following names, followed by

CC the location in the erbB-2 gene that they target: US-1 (166-180); US-3

CC (160-174); US-4 (173-187); US-5 (178-192); UT-1 (151-165); US-D

CC (US-1 scrambled control); SC-3 (US-3 scrambled control); TRACER
 CC (fluoresceinated tracer). It was found that all of the oligonucleotides
 CC (apart from the controls) inhibited the erbB-2 protein, however with
 CC varying degrees of effectiveness. US-3 and UT-1 were identified as
 CC being the most efficient oligonucleotides at inhibiting erbB-2. The
 CC oligonucleotides are useful in vivo to treat cancer (especially
 CC epithelial cell, breast, ovarian, lung or colon cancer) in a human or
 CC other animal, especially when the cancer is characterised by cells that
 CC overexpress the ERBB2 tyrosine kinase receptor.

SQ Sequence 15 BP; 2 A; 6 C; 3 G; 4 T; 0 other;

Query Match 93.3%; Score 14; DB 19; Length 15;

Best Local Similarity 100.0%; Pred. No. 2.6e+02;

Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCCATGGTGTCTAC 14

Db 2 TCCATGGTGTCTAC 15

RESULT 7

AAI75566

ID AAI75566 standard; DNA; 51 BP.

AC AAI75566;

XX 09-NOV-2001 (first entry)

XX Human silent SNP containing nucleic acid SEQ:2507.

DE Human; single nucleotide polymorphism; SNP; genome; gene therapy;

XX protein therapy; vaccine; probe; diagnostic assay; detection;

KW quantitation; restorative therapy; polymorphic; ds.

KW Homo sapiens.

XX WO200140521-A2.

PN 07-JUN-2001.

XX 30-NOV-2000; 2000WO-US32758.

XX 30-NOV-1999; 99US-0168138.

XX 29-NOV-2000; 2000US-0726173.

XX (CURA-) CURAGEN CORP.

XX Shimketa RA, Leach M;

PI WPI; 2001-356160/37.

XX Polymorphic nucleic acid sequences, useful in genetic testing and

XX therapy -

XX Claim 1; Page 818; 2653pp; English.

PS AAI73060 to AAI79867 represent isolated human polymorphic polynucleotide

CC sequences (I), which contain single nucleotide polymorphisms (SNPs).

CC AAI53114 to AAI53329 represent peptides related to human polymorphic

CC polynucleotide sequences. The sequences can be used in gene and protein

CC therapy, and in vaccine production. (I) and the polypeptides encoded by

CC them may be used in the prevention, diagnosis and treatment of diseases

CC associated with inappropriate expression of polymorphic polypeptides.

CC For example, (I) may be used to treat disorders by rectifying mutations

CC or deletions in a patient's genome that affect the activity of

CC polypeptides by expressing inactive proteins or to supplement the

CC patients own production of polypeptide. Additionally, (I) and its

CC complementary sequences may also be used as DNA probes in diagnostic

CC assays to detect and quantify the presence of similar nucleic acids

CC in samples, and therefore which patients may be in need of restorative

CC therapy. The polypeptides encoded by (I) may be used as antigens in the

CC production of antibodies specific for polymorphic polypeptides. The

CC antibodies may also be used to down regulate expression and activity.
CC The antibodies may also be used as diagnostic agents for detecting the
CC presence of polymorphic polypeptides in samples.

XX Sequence 51 BP; 7 A; 14 C; 15 G; 15 T; 0 other;
SQ

Query Match 93.3%; Score 14; DB 22; Length 51;

Best Local Similarity 100.0%; Pred. No. 2.9e+02;

Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 2 CCATGGTGCTCACT 15

|||||

Db 17 CCATGGTGCTCACT 30

RESULT 8

AAV22685/c

ID AAV22685 standard; DNA; 24 BP.

XX

AC AAV22685;

XX

DT 20-JUL-1998 (first entry)

XX

DE PCR primer HN40 used to amplify ErbB-2.

XX

KW ErbB-2 protein; vaccine; T-cell damage; activation; T-cell; treatment;
KW prevention; viral disease; cancer; autoimmune disorder; PCR primer; ss.

XX

OS Synthetic.

XX

PN WO9809650-A1.

XX

PD 12-MAR-1998.

XX

PF 05-SEP-1997; 97WO-JP03123.

XX

PR 06-SEP-1996; 96JP-0236937.

XX

PA (MITU) MITSUBISHI CHEM CORP.

XX

PI Nakamura H, Shiku H, Sunamoto J;

XX

DR WPI; 1998-193326/17.

XX

PT Vaccine preparation comprises antigen and hydrophobic polysaccharide
PT - e.g. mannann containing sterol groups for treating, e.g. cancer

XX

PS Example 1; Page 9; 27pp; English.

XX

CC PCR primers AAV22685-86 are used to amplify DNA encoding ErbB-2
CC proteins. The specification describes a vaccine preparation that
CC comprises an antigen and, optionally, a hydrophobic polysaccharide (HPS)
CC optionally as a composite. The antigen is a protein, such as ErbB-2 class
CC 1-9 proteins, which initiate T-cell damage. The vaccine activates T-cells
CC and is useful for the treatment and prevention of viral diseases, cancer
CC and autoimmune disorders.

XX

SQ Sequence 24 BP; 6 A; 6 C; 7 G; 5 T; 0 other;

Query Match

Best Local Similarity 89.3%; Score 13.4; DB 19; Length 24;

Matches 14; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

OY 1 TCATGGTGCTCACT 15

|||||

Db 21 TCATGGTGCTCACT 7

RESULT 9

AAS09199/c

ID AAS09199 standard; DNA; 29 BP.

XX

AC AAS09199;

XX 07-NOV-2001 (first entry)

XX PCR primer #1 used to amplify cDNA encoding murine CCR7.

DE

XX Cell fusion assay; fluorescence resonance energy transfer; FRET;

KW beta-lactamase; inhibition of cell fusion; CD4; cytokine receptor;

KW viral disease; HIV-1 infection; mouse; murine; CCR7; Th1 cell;

KW PCR primer; ss.

XX

OS Mus sp.

XX

PN WO200160995-A1.

XX

PD 23-AUG-2001.

XX

PF 13-FEB-2001; 2001WO-US04677.

XX

PR 17-FEB-2000; 2000US-0183309.

XX

PA (MERI) MERCK & CO INC.

XX

PI Sullivan KA, Benincasa D, Cascieri MA, Mitnau LJ, Shiao L;

PI Toti MR;

XX

DR WPI; 2001-536569/59.

XX

PT Determining the amount of fusion that occur between two cells comprises
PT measurement of fluorescence energy transfer -

XX

PS Disclosure; Page 14; 59pp; English.

XX

CC The present invention relates to a method for determining the amount
CC of fusion that occurs between two cells, one of which contains the
CC enzyme beta-lactamase and the other of which contains a fluorescent
CC substrate of beta-lactamase. The method comprises the measurement of
CC fluorescence resonance energy transfer (FRET). The invention also
CC provides methods of identifying inhibitors of the fusion of two
CC types of cells, particularly when fusion is mediated by the
CC interaction of a viral protein and target cellular proteins e.g. CD4
CC and cytokine receptors. The methods are useful for identifying
CC substances that are useful for the treatment of viral diseases,
CC particularly for the identification of inhibitors of HIV-1 infection.
CC The present sequence for PCR primer #1 is used with PCR primer #2
CC (AAS09200) to amplify cDNA encoding CCR7 from murine Th1 cells.

XX Sequence 29 BP; 9 A; 8 C; 10 G; 2 T; 0 other;

Query Match 89.3%; Score 13.4; DB 22; Length 29;

Best Local Similarity 93.3%; Pred. No. 6e+02;

Matches 14; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

OY 1 TCATGGTGCTCACT 15

|||||

Db 23 TCATGGTGCTCTCT 9

RESULT 10

AAQ92762

ID AAQ92762 standard; DNA; 14 BP.

XX

AC AAQ92762;

XX

DT 13-FEB-1996 (first entry)

XX

DE c-erbB-2 antisense nucleic acid #105.

XX

KW Antisense nucleic acid; c-erbB-2; inhibition; fibroblast; neoplasm;
KW p185-erbB-2 protein tyrosine kinase; tumour; breast cancer; detection;
KW immune disease; angiogenesis; ss.

XX

OS Synthetic.

XX

PN W09517507-A1.
 XX
 PD 29-JUN-1995.
 XX
 XX 09-DEC-1994; 94WO-EP04094.
 XX
 XX 23-DEC-1993; 93EP-0120710.
 XX
 XX (BIOG-) BIOGNOSTIK GES BIOMOLEKULARE DIAGNOSTIK.
 XX
 XX Brysch W, Schlingensiepen G, Schlingensiepen K, Schlingensiepen R;
 PI
 XX WPI; 1995-240669/31.
 XX
 XX New antisense nucleic acid against C-erbB-2 - for treating or
 PT preventing neoplasms, immune disease and angiogenesis, also for
 PT diagnosis
 PT
 XX Claim 1; Page 48; 55pp; English.
 XX
 XX The sequences given in AAQ92658-762 are antisense nucleic acids which
 CC hybridise with part of the mRNA and/or DNA encoding c-erbB-2. These
 CC antisense nucleic acids are able to inhibit the expression of the
 CC p185-erbB-2 protein tyrosine kinase activity and cell growth in a
 CC number of tumour cells including breast cancer cells. Untransformed
 CC normal fibroblasts are not growth inhibited by anti-c-erbB-2
 CC antisense compounds suggesting that p185-erbB-2 plays a pathogenic
 CC role in the growth of the above mentioned tumours. These antisense
 CC oligonucleotides may be used in the prevention and treatment of
 CC neoplasms, immune diseases and/or diseases involving pathological
 CC angiogenesis when associated with c-erbB-2 expression. They may also
 CC be used to detect expression of the relevant genes.
 XX
 XX Sequence 14 BP; 2 A; 4 C; 4 G; 4 T; 0 other;
 SQ
 Query Match 86.7%; Score 13; DB 16; Length 14;
 Best Local Similarity 100.0%; Pred. No. 9.2e+02;
 Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 3 CATGGTGCTCACT 15
 DB 1 CATGGTGCTCACT 13
 ID AAV48736 standard; DNA; 16 BP.
 XX
 XX AAV48736;
 XX
 XX 15-OCT-1998 (first entry)
 DT
 XX ErbB-2 gene antisense oligonucleotide ErbB-2-28.
 DE
 XX ErbB-2; antisense oligonucleotide; modulate; gene expression; ss.
 KW
 XX Synthetic.
 OS
 XX Homo sapiens.
 XX
 XX EP856579-A1.
 PN
 XX 05-AUG-1998.
 PD
 XX 31-JAN-1997; 97EP-0101531.
 XX
 XX 31-JAN-1997; 97EP-0101531.
 XX
 XX (BIOG-) BIOGNOSTIK GES BIOMOLEKULARE DIAGNOSTIK.
 PA
 XX Brysch W, Schlingensiepen K;
 PI
 XX WPI; 1998-400910/35.
 XX
 XX

PT Preparation of antisense oligo:nucleotide(s) which lack long runs of
 PT consecutive guanosine or inosine - and have specific ratio of
 PT residues able to form two or three hydrogen bonds, have greater
 PT activity and reduced toxicity, used therapeutically or to modulate
 PT growth of cells in culture
 XX
 XX Claim 10; Fig 6a; 286pp; English.
 XX
 XX AAV48709-886 represent antisense oligonucleotides directed against the
 CC ErbB-2 gene. Of these, only oligonucleotides AAV48709-91 resulted
 CC in significant reduction in ErbB-2 protein expression, while
 CC oligonucleotides AAV48792-886 had little effect. The oligonucleotides
 CC exemplify the invention. The specification describes oligonucleotides
 CC that contain 8-30 nucleotides, which contain at most 8 nucleotides that
 CC can each form three hydrogen bonds to cytosine; do not contain four
 CC consecutive nucleotides able to form three H-bonds each to four
 CC consecutive cytosines; do not contain two sequences of three consecutive
 CC nucleotides each able to form three H-bonds to three consecutive
 CC cytosines, and the ratio between residues able to form two H-bonds each
 CC (2R) or three such bonds (3R) is given by 2R/3R = 0.33-0.72. The
 CC oligonucleotides are used to modulate expression of genes, particularly
 CC the genes for p53, ErbB-2, junB, junD, TGF-beta 1 or beta 2 to control
 CC proliferation of primary cell cultures (e.g. bone marrow stem, liver or
 CC kidney cells, osteoclasts, osteoblasts and/or keratinocytes). The
 CC oligonucleotides can also be used to analyse function of proteins (by
 CC altering their expression or activity) and therapeutically, e.g. in
 CC cases of cancer or (targeting TGF) for stimulating the immune system.
 XX
 XX Sequence 16 BP; 2 A; 5 C; 5 G; 4 T; 0 other;
 SQ
 Query Match 86.7%; Score 13; DB 19; Length 16;
 Best Local Similarity 100.0%; Pred. No. 9.4e+02;
 Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 3 CATGGTGCTCACT 15
 DB 1 CATGGTGCTCACT 13
 ID AAA53776/c
 XX
 XX AAA53776 standard; DNA; 19 BP.
 XX
 XX AAA53776;
 XX
 XX 04-DEC-2000 (first entry)
 DT
 XX Forward primer for HER-2 extracellular domain cDNA.
 DE
 XX HER-2; erbB-2; oncogene; receptor-like tyrosine kinase; insertion;
 KW extracellular domain IIIa; antagonist; intron 8; C-terminal extension;
 KW truncated HER-2; p68; dimerization inhibitor; cytostatic; primer; ss.
 XX
 XX Homo sapiens.
 OS
 XX WO200044403-A1.
 PN
 XX 03-AUG-2000.
 PD
 XX 20-JAN-2000; 2000WO-US01484.
 XX
 XX 20-JAN-1999; 99US-0234208.
 PR
 XX (UYOR-) UNIV OREGON HEALTH SCI.
 XX
 XX Doherty JK, Clinton GM, Adelman JP;
 PI
 XX WPI; 2000-499287/44.
 XX
 XX Using polypeptides and antibodies that bind to the extracellular domain
 PT of the receptor-like tyrosine kinase HER-2 to treat solid tumors of the
 PT breast, lung, ovaries and colon
 PT
 XX

PS Example 1; Page 14; 46pp; English.

CC This primer, corresponding to HER-2 cDNA nucleotides 142-161, was used
 CC to amplify the HER-2 extracellular domain. The reverse primers used are
 CC shown in AAA53777 and AAA53778.

CC HER-2/neu (erbB-2) oncogene encodes a receptor-like tyrosine kinase. The
 CC extracellular domain of p185-HER-2 is proteolytically shed from breast
 CC carcinoma cells in culture and is found in serum of some cancer patients
 CC and may be a serum marker of metastatic breast cancer. An alternative
 CC HER-2 mRNA of 4.8 kb with a 274 bp insert (intron 8) has been
 CC identified. The retained intron is in-frame and encodes a 79 amino acid
 CC extension designated ECDIIIA (the present sequence), which is inserted at
 CC residue 340 of p185-HER-2. The alternative mRNA predicts a truncated
 CC HER-2 protein (approximately 68 kDa) that lacks the transmembrane and
 CC intracellular domains (see AA97240). p68HER-2 specifically binds to
 CC p185-HER-2 without activating HER-2. It could therefore block
 CC dimerization of p185-HER-2. The p68HER-2 polypeptide binds to a site on
 CC the ECD of HER-2 that is different from the site of binding for
 CC Herceptin (RTM) (a marketed humanized monoclonal antibody that is used
 CC for the treatment of cancer and binds to the ECD of HER-2). The methods,
 CC compositions, polypeptides and antibodies are used to treat solid
 CC tumours such as breast cancer, small cell lung carcinoma, ovarian cancer
 CC and/or colon cancer, especially where over-expression of HER-2 is
 CC indicated.

XX Sequence 19 BP; 4 A; 5 C; 7 G; 3 T; 0 other;

Query Match 86.7%; Score 13; DB 21; Length 19;
 Best Local Similarity 100.0%; Pred. No. 9.5e+02;
 Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCCATGGTGCTCA 13
 Db 13 TCCATGGTGCTCA 1

RESULT 13
 RAD15845/c

ID AAD15845 standard; DNA; 19 BP.

XX AAD15845;

XX 15-NOV-2001 (first entry)

XX Human HER-2 ECD coding sequence amplifying forward PCR primer #1.

DE HER-2; herstatin; antagonist; extracellular domain; ECD; Herceptin;
 KW solid tumour; cancer; polymorphism; cytostatic; gene therapy; PCR primer;
 KW ss.

OS Homo sapiens.

XX WO200161356-A1.

XX 23-AUG-2001.

XX 16-FEB-2001; 2001WO-US05327.

XX 16-FEB-2000; 2000US-0506079.

XX (UYOR-) UNIV OREGON HEALTH SCI.

XX Clinton G, Henner WD, Evans A;
 XX WPI; 2001-529934/58.

XX New polypeptide, which binds to the extracellular domain of HER-2 for
 XX the treatment of hard tumors -

XX Example 1; Page 22; 61pp; English.

XX The invention relates to novel HER-2 (herstatin-2) antagonist
 CC particularly a polypeptide that binds to the extracellular domain (ECD)

CC of HER-2 at a site that is different from the binding site of humanised
 CC antibody, Herceptin, at an affinity of at least 10⁻⁸. The present
 CC invention is based upon the initial discovery of an alternative HER-2
 CC mRNA transcript with 274 bp insert of intron 8. The translation product
 CC of the alternative transcript is a truncated HER-2 protein designated
 CC p68HER-2 which lacks the transmembrane and intracellular domains of
 CC p185HER-2 but contains ECD I, II of the p185HER-2 and the novel ECDIIIA.
 CC The ECDIIIA-containing polypeptides bind tightly to, and thus antagonise
 CC the HER-2 receptor. The peptides, which bind to an HER-2 ECD, and the
 CC nucleic acids encoding these are useful to treat, diagnose and identify
 CC solid tumours. The present sequence is a PCR primer used for amplifying
 CC human HER2 ECD coding sequence.

XX Sequence 19 BP; 4 A; 5 C; 7 G; 3 T; 0 other;

Query Match 86.7%; Score 13; DB 22; Length 19;
 Best Local Similarity 100.0%; Pred. No. 9.5e+02;
 Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCCATGGTGCTCA 13
 Db 13 TCCATGGTGCTCA 1

RESULT 14
 AAD32531/c

ID AAD32531 standard; DNA; 19 BP.

XX AAD32531;

XX 18-JUN-2002 (first entry)

XX HER-2 extracellular domain cDNA amplifying forward PCR primer A.

DE Endothelial growth factor receptor; EGFR; cytostatic; tumour; herstatin;
 KW HER-2 receptor tyrosine kinase; squamous cell carcinoma; lung; colon;
 KW glial cell tumour; cell growth; PCR; primer; ss.

OS Unidentified.

XX WO200214470-A2.

XX 21-FEB-2002.

XX 14-AUG-2001; 2001WO-US25502.

XX 14-AUG-2000; 2000US-0638834.

XX (UYOR-) UNIV OREGON HEALTH SCI.

XX Clinton GW;

XX WPI; 2002-269185/31.

XX Treating solid tumor characterized by expression of endothelial growth
 XX factor receptor, involves administering recombinant herstatin that
 XX binds to extracellular domain of the endothelial growth factor receptor

XX Example 1; Page 29; 82pp; English.

XX The present invention relates to a method for treating a solid tumour
 XX characterised by endothelial growth factor receptor (EGFR) expression.
 XX The method involves administering an agent that binds to an extracellular
 XX domain (ECD) of EGFR. The invention also relates to a naturally occurring
 XX inhibitor of HER-2 receptor tyrosine kinase called herstatin. The co-
 XX expression of herstatin with p185HER2 causes a striking reduction in cell
 XX growth that corresponds with suppression of p185 autophosphorylation. The
 XX method or a pharmaceutical composition is useful for treating a solid
 XX tumour (selected from squamous cell carcinoma, lung carcinoma, colon
 XX carcinoma and glial cell tumour) characterised by EGFR expression. The
 XX present sequence is a PCR primer used for amplifying HER-2 extracellular
 XX domain cDNA.

```

XX
SQ Sequence 19 BP; 4 A; 5 C; 7 G; 3 T; 0 other;
Query Match 86.7%; Score 13; DB 24; Length 19;
Best Local Similarity 100.0%; Pred. No. 9.5e+02;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCCATGGTGCTCA 13
Db 13 TCCATGGTGCTCA 1

RESULT 15
AAV84090
ID AAV84090 standard; DNA; 20 BP.
XX
AC AAV84090;
XX
DT 12-MAR-1999 (first entry)
XX
PCR primer MTL(P) used to amplify the iap, p35 and dad-1 genes.
XX
Transgenic maize; Agrobacterium induced necrosis inhibition;
KW metallothionein-like promoter; iap; p35; dad-1; PCR primer; ss.
XX
OS Synthetic.
XX
PN MO9854961-A2.
XX
PD 10-DEC-1998.
XX
PF 29-MAY-1998; 98WO-EP03215.
XX
PR 02-JUN-1997; 97US-0867869.
XX
PA (NOVS ) NOVARTIS-ERFINDUNGEN VERW GES MBH.
XX
PI Hansen G;
XX
WPI; 1999-059863/05.
XX
DR Transforming plant cells using Agrobacterium - in conditions that
PT inhibit Agrobacterium-induced necrosis
XX
Example 8; Page 25; 47pp; English.
XX
PCR primers AAV84090-93 were used for the amplification and detection
of iap, p35 and dad-1 genes in transgenic maize callus, which was
transformed with these genes using the method of the invention. The
genes were cloned under the control of a metallothionein-like
CC promoter (MLP). PCR primer AAV84090 hybridises promoter sequences, and
is used in combination with each of the other primers in separate
reactions. The specification describes a new method for transforming a
plant cell with a gene of interest. The method comprises exposing the
cell to Agrobacterium carrying that gene, under conditions which inhibit
Agrobacterium induced necrosis (AIN). The method is used to transform
plants with a gene of interest.
XX
SQ Sequence 20 BP; 4 A; 4 C; 7 G; 5 T; 0 other;
Query Match 86.7%; Score 13; DB 20; Length 20;
Best Local Similarity 100.0%; Pred. No. 9.6e+02;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCCATGGTGCTCA 13
Db 6 TCCATGGTGCTCA 18

Search completed: November 21, 2002, 05:08:27
Job time : 290 secs

```


GenCore version 5.1.3
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OM nucleic - nucleic search, using sw model

Run on: November 21, 2002, 04:47:34 ; Search time 2148 Seconds
(without alignments)
113.097 Million cell updates/sec

Title: US-09-716-320-3

Perfect score: 15

Sequence: 1 tccatggtgctcaact 15

Scoring table: IDENTITY_NUC

Gapop 10.0 , Gapext 1.0

Searched: 16154066 seqs, 8097743376 residues

Total number of hits satisfying chosen parameters: 357874

Minimum DB seq length: 0

Maximum DB seq length: 100

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

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EST:*
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2: em_esthum:*
3: em_estin:*
4: em_estmu:*
5: em_estov:*
6: em_estpl:*
7: em_estro:*
8: em_htc:*
9: gb_est1:*
10: gb_est2:*
11: gb_htc:*
12: gb_est3:*
13: gb_est4:*
14: gb_est5:*
15: em_estfun:*
16: em_estom:*
17: gb_gss:*
18: em_gss_hum:*
19: em_gss_inv:*
20: em_gss_pln:*
21: em_gss_vrt:*
22: em_gss_fun:*
23: em_gss_mam:*
24: em_gss_mus:*
25: em_gss_other:*
26: em_gss_pro:*
27: em_gss_rod:*

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
c 1	13.4	89.3	75	13	BM023447 ie80e10.y
2	12.4	82.7	58	9	AI022662 ox05h11.x
3	12.4	82.7	74	9	AL362924 AL362924
4	12.4	82.7	77	14	W15664 mb52402.r1
5	12.4	82.7	80	10	AV832470 AV832470
6	12.4	82.7	96	14	BQ566161 g153e03.y

c 7	12	80.0	62	17	AZ648327	AZ648327	1M0517K13
8	12	80.0	82	17	AI138D06P	AI138D06P	AI465857 T. brucei
c 9	12	80.0	85	9	AI930840	AI930840	AI930840 sb43a06.y
10	12	80.0	90	9	AA690354	AA690354	AA690354 vt31b01.r
c 11	12	80.0	92	17	AZ590927	AZ590927	AZ590927 1M0400G16
c 12	11.8	78.7	38	17	TA358F01P	TA358F01P	AL494114 T. brucei
13	11.8	78.7	65	9	AA285022	AA285022	AA285022 xt25e10.s
14	11.8	78.7	70	17	BH805669	BH805669	BH805669 1008061H0
15	11.8	78.7	72	17	AZ799758	AZ799758	AZ799758 2M0057G19
16	11.8	78.7	80	17	BH895273	BH895273	BH895273 3526.1.33
17	11.8	78.7	86	17	BH806000	BH806000	BH806000 1008063G0
c 18	11.8	78.7	89	13	BI472373	BI472373	BI472373 fs02d01.y
19	11.8	78.7	91	10	AV834264	AV834264	AV834264 AV834264
20	11.8	78.7	92	14	D18160	D18160	D18160 MUSGS00418
21	11.8	78.7	97	14	T62112	T62112	T62112 YG66C02.r1
22	11.8	78.7	99	17	AZ433742	AZ433742	AZ433742 1M0219H13
c 23	11.8	78.7	100	9	AA65812	AA65812	AA65812 og97h05.s
c 24	11.4	76.0	22	17	AZ954618	AZ954618	AZ954618 2M0220E20
25	11.4	76.0	41	9	AL799065	AL799065	AL799065 AL799065
c 26	11.4	76.0	46	9	AA591686	AA591686	AA591686 v113g08.r
27	11.4	76.0	50	9	AA108275	AA108275	AA108275 EST0018.r
c 28	11.4	76.0	50	9	AU102591	AU102591	AU102591 AU102591
c 29	11.4	76.0	50	9	AU102592	AU102592	AU102592 AU102592
c 30	11.4	76.0	50	9	AU102593	AU102593	AU102593 AU102593
c 31	11.4	76.0	50	9	AU102594	AU102594	AU102594 AU102594
c 32	11.4	76.0	50	9	AU102595	AU102595	AU102595 AU102595
c 33	11.4	76.0	50	9	AU107574	AU107574	AU107574 AU107574
c 34	11.4	76.0	56	9	AI656187	AI656187	AI656187 tt38f04.x
35	11.4	76.0	60	17	AL752489	AL752489	AL752489 Arabidops
36	11.4	76.0	68	14	T72238	T72238	T72238 yc68d01.r1
c 37	11.4	76.0	73	9	AA220616	AA220616	AA220616 my25f09.r
c 38	11.4	76.0	74	12	BF528890	BF528890	BF528890 602043353
39	11.4	76.0	77	9	AA387938	AA387938	AA387938 vc87h07.r
40	11.4	76.0	77	14	T62949	T62949	T62949 yb99h02.s1
41	11.4	76.0	85	9	AI167298	AI167298	AI167298 ox65c07.s
42	11.4	76.0	85	9	AA469098	AA469098	AA469098 nel6g10.s
43	11.4	76.0	85	9	AA529090	AA529090	AA529090 v132d12.r
44	11.4	76.0	90	9	AA213781	AA213781	AA213781 zr92g11.r
45	11.4	76.0	91	9	AA089130	AA089130	AA089130 mc21a01.r

ALIGNMENTS

RESULT 1
BM023447/c
LOCUS BM023447 75 bp mRNA linear EST 12-MAR-2002
DEFINITION ie80e10.y1 Melton Normalized Human Islet 4 M4-HIS 1 Homo sapiens
CDNA clone IMAGE:5673307 5', mRNA sequence.
ACCESSION BM023447
VERSION BM023447.1 GI:16537803
KEYWORDS EST.
SOURCE human.
ORGANISM Homo sapiens

REFERENCE Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
1 (bases 1 to 75)

AUTHORS Melton, D., Brown, J., Kenty, G., Permutt, A., Lee, C., Kaestner, K., Lemishka, I., Searce, M., Brestelli, J., Gradwohl, G., Clifton, S., Hillier, L., Marra, M., Paper, D., Wylie, T., Martin, J., Bliscain, A., Schmitt, A., Theising, B., Ritter, E., Ronko, I., Bennett, J., Cardenas, M., Gibbons, M., McCann, R., Cole, R., Tsagarishvili, R., Williams, T., Jackson, Y. and Bowers, Y.

TITLE Endocrine Pancreas Consortium
JOURNAL Unpublished (2000)
COMMENT Other_ESTs: ie80e10.x1

Contact: Douglas Melton, Klaus H. Kaestner, & Hiroshi Inoue
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Harvard University, Howard Hughes Medical Institute
Dept of Molecular and Cellular Biology, 7 Divinity Ave, Cambridge, MA 02138
Tel: 617-495-1812
Fax: 617-495-8557

QY 2 CCATGGTGTCTACT 15
 Db 8 CCATGGTGTCTCT 21

RESULT 4

W15664 77 bp mRNA linear EST 10-SEP-1996
 LOCUS m52d02.r1 Soares mouse p3NMF19.5 Mus musculus cDNA clone
 DEFINITION IMAGE:333027 5' similar to gb:V00714 Mouse gene for alpha-globin
 (MOUSE);, mRNA sequence.

ACCESSION W15664

VERSION W15664.1 GI:1290047

KEYWORDS EST.

SOURCE house mouse.

ORGANISM

Mus musculus
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.

REFERENCE 1 (bases 1 to 77)

AUTHORS Marra,M., Hillier,L., Allen,M., Bowles,M., Dietrich,N., Dubuque,T.,
 Geisels,S., Kucaba,T., Lacy,M., Le,M., Martin,J., Morris,M.,
 Schellenberg,K., Steptoe,M., Tan,F., Underwood,K., Moore,B.,
 Theising,B., Wylie,T., Lennon,G., Soares,B., Wilson,R. and
 Waterston,R.

TITLE The WashU-HMI Mouse EST Project

JOURNAL Unpublished (1996)

COMMENT Contact: Marra M/Mouse EST Project

WashU-HMI Mouse EST Project

Washington University School of Medicine

4444-Forest Park Parkway, Box 8501, St. Louis, MO 63108

Tel: 314 286 1800

Fax: 314 286 1810

Email: mouseest@watson.wustl.edu

This clone is available royalty-free through LLNL; contact the
 IMAGE Consortium (info@image.llnl.gov) for further information.

MGI:214427

Seq primer: ETPPrimer

High quality sequence stop: 70.

Location/Qualifiers

1..77

/organism="Mus musculus"

/db_xref="taxon:10090"

/clone="IMAGE:333027"

/clone_lib="Soares mouse p3NMF19.5"

/dev_stage="19.5 dpc total fetus"

/lab_host="DH10B (ampicillin resistant)"

/note="Vector: pT7T3D (Pharmacia) with a modified

polylinker; Site.1: Not I; Site.2: Eco RI; 1st strand cDNA

was primed with a Not I - oligo(dT) primer [5',

TGTTACCAATCTGAAGTGGAGCGGCCCATTTTTTTTTTTTTTTTTTTT 3'],

double-stranded cDNA was size selected, ligated to Eco RI

adapters (Pharmacia), digested with Not I and cloned into

the Not I and Eco RI sites of a modified pT7T3 vector

(Pharmacia). Library went through one round of

normalization to a Cot = 5. Library constructed by Bento

Soares and M.Fatima Bonaldo. RNA was kindly provided by

Dr. Minoru Ko (Wayne State University)."

23 a 15 c 28 g 11 t

BASE COUNT

Query Match 82.7%; Score 12.4; DB 14; Length 77;

Best Local Similarity 92.9%; Pred. No. 2.le-04;

Matches 13; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2 CCATGGTGTCTACT 15

Db 18 CCATGGTGTCTCT 31

RESULT 5

AV832470/c 80 bp mRNA linear EST 22-JUN-2001

LOCUS AV832470/c

DEFINITION AV832470 K. Sato unpublished cDNA library: Hordeum vulgare subsp.

vulgare leaves vegetative stage Hordeum vulgare subsp. vulgare cDNA
 clone baak3f24, mRNA sequence.

AV832470

GI:14524559

EST.

SOURCE Hordeum vulgare subsp. vulgare.

ORGANISM

Hordeum vulgare subsp. vulgare.
 Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;
 Spermatophyta; Magnoliophyta; Liliopsida; Poales; Poaceae; Poideae

REFERENCE 1 (bases 1 to 80)

AUTHORS Sato,K.

TITLE Barley EST sequencing project in NIG and Okayama Univ

JOURNAL Unpublished (2001)

COMMENT Contact: Kazuhiro Sato

Research Institute for Bioresources

Okayama University, Barley Germplasm Center

Chuo 2-20-1, Kurashiki, Okayama 710-0046, Japan

Email: kzsato@rib.okayama-u.ac.jp,

URL:htc://www.rib.okayama-u.ac.jp/barley/

Sato,K., Saisho,D., Takeda,K., Shini,T. and Kohara,Y. Direct

submission;

database:http://www.shigen.nig.ac.jp/barley/Barley.html.

FEATURES

source

1..80

/organism="Hordeum vulgare subsp. vulgare"

/cultivar="Akashinriki"

/db_xref="taxon:112509"

/clone="baak3f24"

/clone_lib="K. Sato unpublished cDNA library: Hordeum

vulgare subsp. vulgare leaves vegetative stage"

/tissue_type="leaves"

/dev_stage="vegetative stage"

BASE COUNT 25 a 13 c 22 g 14 t 6 others

ORIGIN

Query Match 82.7%; Score 12.4; DB 10; Length 80;

Best Local Similarity 92.9%; Pred. No. 2.le-04;

Matches 13; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2 CCATGGTGTCTACT 15

Db 14 CCATGGTGTCTCT 1

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/organism="Mus musculus"
/strain="BALB/c"
/db_xref="taxon:10090"
/clone_lib="gi53e03"
/sex="male and female"
/dev_stage="Post natal day 5 to 13"
/note="Organ: Organ of Corti; Vector: pBluescript; The organ of Corti (OC) was fine dissected from a total of 386 OC as follows: 102 samples from post-natal (P) day 5; 72 from P6; 60 from P7; 46 from P8; 18 from P9; 20 from P10; 14 from P12 and 24 from P13. After killing animals by cervical dislocation followed by decapitation, the bulla was removed and opened in Leibowitz medium. The bony capsule of the cochlea was chipped away, stria vascularis and spiral ligament were removed and the sensory epithelium was carefully dissected out of the modiolus. Total RNA was extracted using the micro Fasttrack kit (catalog # K1593-02; Invitrogen, Carlsbad, CA), according to manufacturer's instructions. Reverse transcription and library construction were carried out with the Uni-zap XR vector kit (catalog # 237211, Stratagene) and Uni-zap XR Gigapack III Gold Cloning kit (catalog # 237612), both from Stratagene (La Jolla, CA, USA), according to manufacturer's instructions. Briefly: 1.5 ug mRNA was reverse transcribed using a hybrid oligo(dT) linker-primer that contains an Xho I site. First strand synthesis was primed with the linker- primer and transcribed using Moloney murine leukemia virus reverse transcriptase (MMLV-RT) and 5-methyl dCTP. The second strand was synthesized with DNA polymerase and RNase H. Complementary DNA was blunt ended with Pfu DNA polymerase, ligated with EcoR I adapters in the presence of ligase and digested with Xho I. The cDNA was sequentially size fractionated over Pharmacia Size Sep400 (Pharmacia, Uppsala, Sweden) and Clontech Chroma Spin-1000 (Clontech, Palo Alto, CA) columns to enrich for cDNAs greater than 400bp and 1000 bp, respectively. The cDNA was then directionally ligated to the Uni-ZAP XR vector, which had been predigested with EcoR I and Xho I. The phagemid was packaged with Gigapack III Gold and, upon titration on XL1 Blue MRF' cells, the yield of the phage library was estimated to be 11,100,000 recombinants. Stratagene's ExAssist Interference resistance helper phage (catalogue # 211203) was adopted to rescue plasmid DNA from the phages. Upon plating of the rescued library, individual cDNA clones were selected and grown in 96-well, 2 ml growth plate. Plasmid DNA was purified from 200 ul of saturated culture with the Concert96(TM) plasmid purification kit (Invitrogen, Carlsbad, CA) as instructed by the manufacturer. ESTs from the 5' end of the cDNA clones were generated with the universal M13 reverse primer (CAGGAACAGCTATGACC) and 25% strength BigDye terminator sequencing chemistry (Applied Biosystems, Foster City, CA). Sequencing reactions were performed on MJ Tetrad thermal cyclers (MJ Research, Waltham, MA), and analyzed on 3700 automated capillary sequencers using POP5 polymer (Applied Biosystems, Foster City, CA). The frequency distribution of the library is as follows: 72% of genes have 1 copy; 14.3% 2; 12% 3-10; 1.4% 11-50 and 0.1% 51-150. As to gene function, 45% of genes are present in GenBank and have known function; 23% have hits in GenBank, but do not have assigned function; 12% are uncharacterized ESTs and 20% are unidentified."
BASE COUNT      28 a   19 c   34 g   15 t
ORIGIN
Query Match      82.78; Score 12.4; DB 14; Length 96;
Best Local Similarity 92.99; Pred. No. 2.3e+04;
Matches 13; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      2 CCATGGTGCTCACT 15
        |||||
Db       23 CCATGGTGCTCTCT 36

```

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RESULT 7
AZ648327/c
LOCUS
DEFINITION
        A2648327
        62 bp DNA linear GSS 14-DEC-2000
        IM0517K13F Mouse 10kb plasmid UUGC1M library Mus musculus genomic
        Clone UUGC1M0517K13 F, DNA sequence.
ACCESSION
        A2648327
VERSION
        A2648327.1 GI:11780683
KEYWORDS
        GSS.
SOURCE
        house mouse.
ORGANISM
        Mus musculus
        Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
        Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
REFERENCE
        1 (bases 1 to 62)
AUTHORS
        Dunn,D., Aoyagi,A., Barber,M., Beacorn,T., Duval,B., Hamil,C.,
        Islam,H., Longacre,S., Mahmoud,M., Meenen,E., Pedersen,T., Reilly
        ,M., Rose,M., Rose,R., Stokes,R., Tingey,A., von Niederhauser,A.
        and Wright,D., Weiss,R.
        Mouse whole genome scaffolding with paired end reads from 10kb
        plasmid inserts
        Unpublished (2000)
COMMENT
        Contact: Robert B. Weiss
        University of Utah Genome Center
        Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLG, UT
        84112, USA
        Tel: 801 585 5606
        Fax: 801 585 7177
        Email: ddunn@genetics.utah.edu
        Insert Length: 10000 Std Error: 0.00
        Plate: 0517 row: K column: 13
        Seq primer: CGTTGTAAACGACGGCCAGT
        Class: plasmid ends
        High quality sequence stop: 62.
FEATURES
        source
        1..62
        /organism="Mus musculus"
        /strain="C57BL/6J"
        /db_xref="taxon:10090"
        /clone="UUGC1M0517K13"
        /clone_lib="Mouse 10kb plasmid UUGC1M library"
        /sex="Male"
        /lab_host="E. Coli strain XL10-Gold, Tl-resistant, F-"
        /notes="Vector: PWD42nv; Purified genomic DNA from M.
        musculus C57BL/6J (male) was obtained from the Jackson
        Laboratory Mouse DNA Resource
        (http://www.jax.org/resources/documents/dnares/). The DNA
        was hydrodynamically sheared by repeated passage through a
        0.005 inch orifice at constant velocity. The sheared DNA
        was blunt end-repaired with T4 DNA polymerase and T4
        polynucleotide kinase. Adaptor oligonucleotides were
        ligated to the blunt ends in high molar excess. The
        adapted DNA was purified and size-selected for a 9.5 to
        10.5 kb range using preparative agarose gel
        electrophoresis. Vector DNA was prepared from a derivative
        of pWD42 (gil4732114|gb|AF129072.1), a copy-number
        inducible derivative of plasmid R1. The vector was ligated
        with adaptors complementary to the insert adaptors and
        purified. The sheared, adapted mouse DNA was annealed to
        adapted vector DNA, and transformed into
        chemically-competent E. coli XL10-Gold (Stratagene) cells
        and selected for ampicillin resistance."
BASE COUNT      11 a   20 c   15 g   16 t
ORIGIN
Query Match      80.08; Score 12; DB 17; Length 62;
Best Local Similarity 100.0%; Pred. No. 2.9e+04;
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      2 CCATGGTGCTCA 13
        |||||
Db       45 CCATGGTGCTCA 34

```

RESULT 8

TA138D06P

LOCUS

DEFINITION

ACCESSION

VERSION

KEYWORDS

SOURCE

ORGANISM

REFERENCE

AUTHORS

TITLE

JOURNAL

COMMENT

FEATURES

source

BASE COUNT

ORIGIN

Query Match

Best Local Similarity

Matches

QY

Db

RESULT 9

AI930840/C

LOCUS

DEFINITION

ACCESSION

VERSION

KEYWORDS

SOURCE

ORGANISM

REFERENCE

AUTHORS

TITLE

JOURNAL

COMMENT

BASE COUNT

ORIGIN

Query Match

Best Local Similarity

Matches

QY

Db

RESULT 10

AA690354

LOCUS

DEFINITION

ACCESSION

VERSION

KEYWORDS

SOURCE

ORGANISM

REFERENCE

AUTHORS

TITLE

JOURNAL

COMMENT

BASE COUNT

ORIGIN

Query Match

Best Local Similarity

Matches

QY

Db

RESULT 11

AA690354

LOCUS

DEFINITION

ACCESSION

VERSION

KEYWORDS

SOURCE

ORGANISM

REFERENCE

AUTHORS

TITLE

JOURNAL

COMMENT

BASE COUNT

ORIGIN

Query Match

Best Local Similarity

Matches

QY

Db

RESULT 12

AA690354

LOCUS

DEFINITION

ACCESSION

VERSION

KEYWORDS

SOURCE

ORGANISM

REFERENCE

AUTHORS

TITLE

JOURNAL

COMMENT

BASE COUNT

ORIGIN

Query Match

Best Local Similarity

Matches

QY

Db

RESULT 13

AA690354

LOCUS

DEFINITION

ACCESSION

VERSION

KEYWORDS

SOURCE

ORGANISM

REFERENCE

AUTHORS

TITLE

JOURNAL

COMMENT

BASE COUNT

ORIGIN

Query Match

Best Local Similarity

Matches

QY

Db

RESULT 14

AA690354

LOCUS

DEFINITION

ACCESSION

VERSION

KEYWORDS

SOURCE

ORGANISM

REFERENCE

AUTHORS

TITLE

JOURNAL

COMMENT

BASE COUNT

ORIGIN

Query Match

Best Local Similarity

Matches

QY

Db

RESULT 15

AA690354

LOCUS

DEFINITION

ACCESSION

VERSION

KEYWORDS

SOURCE

ORGANISM

REFERENCE

AUTHORS

TITLE

JOURNAL

COMMENT

BASE COUNT

ORIGIN

Query Match

Best Local Similarity

Matches

QY

Db

RESULT 16

AA690354

LOCUS

DEFINITION

ACCESSION

VERSION

KEYWORDS

SOURCE

ORGANISM

REFERENCE

AUTHORS

TITLE

JOURNAL

COMMENT

BASE COUNT

ORIGIN

Query Match

Best Local Similarity

Matches

QY

Db

RESULT 17

AA690354

LOCUS

DEFINITION

ACCESSION

VERSION

KEYWORDS

SOURCE

ORGANISM

REFERENCE

AUTHORS

TITLE

JOURNAL

COMMENT

BASE COUNT

ORIGIN

Query Match

Best Local Similarity

Matches

QY

Db

RESULT 18

AA690354

LOCUS

DEFINITION

ACCESSION

VERSION

KEYWORDS

SOURCE

ORGANISM

REFERENCE

AUTHORS

TITLE

JOURNAL

COMMENT

BASE COUNT

ORIGIN

Query Match

Best Local Similarity

Matches

QY

Db

RESULT 19

AA690354

LOCUS

DEFINITION

ACCESSION

VERSION

KEYWORDS

SOURCE

ORGANISM

REFERENCE

AUTHORS

TITLE

JOURNAL

COMMENT

BASE COUNT

ORIGIN

Query Match

Best Local Similarity

Matches

QY

Db

RESULT 20

AA690354

LOCUS

DEFINITION

ACCESSION

VERSION

KEYWORDS

SOURCE

ORGANISM

REFERENCE

AUTHORS

TITLE

JOURNAL

COMMENT

BASE COUNT

ORIGIN

Query Match

Best Local Similarity

Matches

QY

Db

RESULT 21

AA690354

LOCUS

DEFINITION

ACCESSION

VERSION

KEYWORDS

SOURCE

ORGANISM

REFERENCE

AUTHORS

TITLE

JOURNAL

COMMENT

BASE COUNT

ORIGIN

Query Match

Best Local Similarity

Matches

QY

Db

RESULT 22

AA690354

LOCUS

DEFINITION

ACCESSION

VERSION

KEYWORDS

SOURCE

ORGANISM

REFERENCE

AUTHORS

TITLE

JOURNAL

COMMENT

BASE COUNT

ORIGIN

Query Match

Best Local Similarity

Matches

QY

Db

RESULT 23

AA690354

LOCUS

DEFINITION

ACCESSION

VERSION

KEYWORDS

SOURCE

ORGANISM

REFERENCE

AUTHORS

TITLE

JOURNAL

COMMENT

BASE COUNT

ORIGIN

Query Match

Best Local Similarity

Matches

QY

Db

RESULT 24

AA690354

LOCUS

DEFINITION

ACCESSION

VERSION

KEYWORDS

SOURCE

ORGANISM

REFERENCE

AUTHORS

TITLE

JOURNAL

COMMENT

BASE COUNT

ORIGIN

Query Match

Best Local Similarity

Matches

QY

Db

RESULT 25

AA690354

LOCUS

WashU-HHMI Mouse EST Project
Washington University School of Medicine
4444 Forest Park Parkway, Box 8501, St. Louis, MO 63108
Tel: 314 286 1800
Fax: 314 286 1810

Email: mouseest@watson.wustl.edu
This clone is available royalty-free through LLMU; contact the
IMAGE Consortium (info@image.llnl.gov) for further information.
MGI: 630361

Putative full length read

vector to vector length is 147

Seq primer: -28ml3 rev2 ET from Amersham.

Location/Qualifiers

FEATURES

source

1. .90
/organism="Mus musculus"
/strain="FVB/N"
/db_xref="taxon:10090"
/clone="IMAGE:1164649"
/dev_stage="7 day juvenile"
/lab_host="DH108"
/note="Vector: pT7T3D-Pac (Pharmacia) with a modified
polylinker; Site.1: EcoRI; Site.2: NotI; 1st strand cDNA
was primed with a Not I - oligo(dT) primer [5'
TGTTAGCAATCTGAAGGAGCGCGCCCTTTTTTTTTTTTTTTTTT
3']; double-stranded cDNA was ligated to Eco RI adaptors
[AATTCGGATCCCTGG], digested with Not I and cloned into the
Not I and Eco RI sites of the modified pT7T3 vector.
Library constructed by Bob Barstead."

BASE COUNT 26 a 26 c 16 g 22 t
ORIGIN

Query Match 80.0%; Score 12; DB 9; Length 90;

Best Local Similarity 100.0%; Pred. No. 3.5e+04;

Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 3 CATGGTCTCAC 14

Db 18 CATGGTCTCAC 29

RESULT 11

AZ590927/c

LOCUS

DEFINITION 1M0400G16R Mouse 10kb plasmid UUGC1M library Mus musculus genomic
clone UUGC1M0400G16 R, DNA sequence.

ACCESSION AZ590927

VERSION AZ590927.1

KEYWORDS GSS.

SOURCE

ORGANISM

house mouse.

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;

Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.

1 (bases 1 to 92)

AUTHORS

Dunn,D., Aoyagi,A., Barber,M., Beacorn,T., Duval,B., Hamil,C.,

Islam,H., Longacre,S., Mahmoud,M., Meenen,E., Pedersen,T., Rellly

,M., Rose,M., Rose,R., Stokes,R., Tingey,A., von Niederhausern,A.

and Wright,D.,Weiss,R.

TITLE

Mouse whole genome scaffolding with paired end reads from 10kb

plasmid inserts

Unpublished (2000)

JOURNAL

COMMENT

Contact: Robert B. Weiss

University of Utah Genome Center

University of Utah

Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLC, UT

84112, USA

Tel: 801 585 5606

Fax: 801 585 7177

Email: ddunn@genetics.utah.edu

Insert Length: 10000 Std Error: 0.00

Plate: 0400 row: G column: 16

Seq primer: CACACAGGAACAGCTATGACC

Class: plasmid ends

FEATURES

source

High quality sequence stop: 92.

Location/Qualifiers

1. .92

/organism="Mus musculus"

/strain="C57BL/6J"

/db_xref="taxon:10090"

/clone="UUGC1M0400G16"

/clone_lib="Mouse 10kb plasmid UUGC1M library"

/sex="Male"

/lab_host="E. Coli strain XL10-Gold, T1-resistant, F-"

/note="Vector: pWD42nv; Purified genomic DNA from M.

musculus C57BL/6J (male) was obtained from the Jackson

Laboratory Mouse DNA Resource

(http://www.jax.org/resources/documents/dnares/). The DNA

was hydrodynamically sheared by repeated passage through a

0.005 inch orifice at constant velocity. The sheared DNA

was blunt end-repaired with T4 DNA polymerase and T4

polynucleotide kinase. Adaptor oligonucleotides were

ligated to the blunt ends in high molar excess. The

adapted DNA was purified and size-selected for a 9.5 to

10.5 kb range using preparative agarose gel

electrophoresis. Vector DNA was prepared from a derivative

of pWD42 (g14732114|gb|AF129072.1), a copy-number

inducible derivative of plasmid R1. The vector was ligated

with adaptors complementary to the insert adaptors and

purified. The sheared, adapted mouse DNA was annealed to

adapted vector DNA, and transformed into

chemically-competent E. coli XL10-Gold (Stratagene) cells

and selected for ampicillin resistance."

BASE COUNT 20 a 24 c 23 g 25 t

ORIGIN

Query Match 80.0%; Score 12; DB 17; Length 92;

Best Local Similarity 100.0%; Pred. No. 3.6e+04;

Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 3 CATGGTCTCAC 14

Db 16 CATGGTCTCAC 5

RESULT 12

TA358F01P/c

LOCUS

DEFINITION T. brucei sheared genomic DNA clone 358f01, forward sequence,

genomic survey sequence.

ACCESSION AL494114

VERSION AL494114.1

KEYWORDS GSS.

SOURCE

ORGANISM

Trypanosoma brucei.

Eukaryota; Euglenozoa; Kinetoplastida; Trypanosomatidae;

Trypanosoma

1 (bases 1 to 38)

AUTHORS

Hall,N., Bowman,S., Lennard,N.J., Doggett,J., Atkin,R.,

Chillingworth,C., Ormond,D., Harris,B., El-Sayed,N., Hou,L.,

Melville,S.E., Rajandream,M.A. and Barrell,B.G.

Direct Submission

TITLE

Submitted (10-DEC-2000) Trypanosoma brucei genome sequencing

project, Sanger Centre, The Wellcome Trust Genome Campus, Hinxton,

Cambridge CB10 1SA, E-mail: barrell@sanger.ac.uk and

nhls@sanger.ac.uk

COMMENT

Constructed at the Institute for Genomic Research (TIGR),

Rockville, MD. Genomic DNA isolated from a cloned population of

Trypanosoma brucei (TREU927/4 GUTat 10.1) was mechanically sheared

to give a tight size distribution (

4 kb). The v + i method used for the library construction is

described in detail in Smith, H. and Venter, J.C. (Making small

insert libraries for whole genome shotgun sequencing projects. In

Genome Sequencing: A Practical Approach, eds. M. Vaudin and B.

Barrell, Oxford University Press, 1999).

Email: nelsayed@tigr.org

Details of T. brucei sequencing at the Sanger Centre are available

at http://www.sanger.ac.uk/projects/T_brucei/.

FEATURES

source
Location/Qualifiers
1. .38
/organism="Trypanosoma brucei"
/strain="TREU927"
/db_xref="taxon:5691"
/clone="358F01"

BASE COUNT 16 a 5 c 6 g 11 t

Query Match 78.7%; Score 11.8; DB 17; Length 38;

Best Local Similarity 86.7%; Pred. No. 2.9e+04;
Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 TCCATGGTCTCACT 15
||||| ||||| ||

DB 30 TCCATGTTGCACACT 16

RESULT 13

AA285022

LOCUS 65 bp mRNA linear EST 15-MAY-1997
DEFINITION zt25e10.s1 Soares ovary tumor NbHOT Homo sapiens cDNA clone
IMAGE:714186 3' similar to gb:X57809 IG LAMBDA CHAIN C REGIONS
(HUMAN); mRNA sequence.

ACCESSION

AA285022

VERSION

AA285022.1 GI:19277703

KEYWORDS

EST.

SOURCE

human.

ORGANISM

Homo sapiens

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homidae; Homo.

REFERENCE

1 (bases 1 to 65)

AUTHORS

Hillier, L., Allen, M., Bowles, L., Dubuque, T., Geisel, G., Jost, S.,
Kucaba, T., Lacy, M., Le, N., Lennon, G., Marra, M., Martin, J., Moore, B.,
Schellenberg, K., Steptoe, M., Tan, F., Theising, B., White, Y., Wylie,
T., Waterston, R., and Wilson, R.

TITLE

WasNU-Merck EST Project 1997

JOURNAL

Unpublished (1997)

COMMENT

Contact: Wilson RK
4444 Forest Park Parkway, Box 8501, St. Louis, MO 63108
Tel: 314 286 1800
Fax: 314 286 1810

Email: est@wustl.wustl.edu

This clone is available royalty-free through LNL; contact the
IMAGE Consortium (info@image.llnl.gov) for further information.
Seq primer: -41m13 fwd. ET from Amersham.

FEATURES

Location/Qualifiers

1..65

/organism="Homo sapiens"

/db_xref="taxon:9606"

/clone="IMAGE:714186"

/clone_lib="Soares ovary tumor NbHOT"

/sex="Female"

/tissue_type="ovarian tumor"

/lab_host="DH10B (ampicillin resistant)"

/note="Organ: ovary; Vector: pT73D (Pharmacia) with a
modified polylinker; Site_1: Not I; Site_2: Eco RI; 1st
strand cDNA was primed with a Not I - oligo(dT) primer [5'
TGTTACCAATCTGAGTGGAGCGCCGCTTTTCTTTTCTTTT 3']
double-stranded cDNA was size selected, ligated to Eco RI
adapters (Pharmacia), digested with Not I and cloned into
the Not I and Eco RI sites of a modified pT73 vector
(Pharmacia). Library constructed by Bento Soares and
M.Fatima Bonaldo."

BASE COUNT 7 a 21 c 17 g 20 t

ORIGIN

Query Match

Best Local Similarity 78.7%; Score 11.8; DB 9; Length 65;

Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 TCCATGGTCTCACT 15
||||| ||||| ||

DB 23 TCCACGGTCTCCCT 37

RESULT 14

BH805669

LOCUS

1008061H01.2EL_x1 1008 - RescueMu Grid 1 zea mays genomic, DNA

DEFINITION

sequence.

ACCESSION

BH805669

VERSION

BH805669.1 GI:20323197

KEYWORDS

GSS.

SOURCE

zebra mays.

ORGANISM

zebra mays

Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;
Spermatophyta; Magnoliophyta; Liliopsida; Poales; Poaceae; PACC
clade; Panicoideae; Andropogoneae; Zea.

REFERENCE

1 (bases 1 to 70)

AUTHORS

Walbot, V.

TITLE

Maize genomic sequences found using engineered RescueMu transposon

JOURNAL

Unpublished (2001)

COMMENT

Contact: Walbot V
Department of Biological Sciences
Stanford University
855 California Ave, Palo Alto, CA 94304, USA
Tel: 650 723 2227
Fax: 650 725 8221
Email: walbot@stanford.edu

FEATURES

Location/Qualifiers

1..70

/organism="Zea mays"

/cultivar="mixed background W23/A188/B73"

/db_xref="taxon:4577"

/clone_lib="1008 - RescueMu Grid 1"

/tissue_type="leaf"

/dev_stage="adult"

/lab_host="DH10B"

/note="Organ: leaf; Vector: RescueMu (engineered from
pBluescript backbone); Site_1: BamHI; Site_2: BglII;
RescueMu is a 4.9 kb, modified maize Mu transposon
designed to allow plasmid rescue from total genomic DNA.
Mu elements insert preferentially into transcription
units. For more information on RescueMu, go to the web
site www.zmdb.fasstate.edu and follow the links for
'RescueMu.' Grid 1 was grown at Berkeley in 2001. DNA was
extracted from leaf punches, double digested using BamHI
and BglII, and ligated to form circular plasmids. DH10B
cells were transformed and then screened on LB plates with
ampicillin."

BASE COUNT 9 a 19 c 11 g 31 t

ORIGIN

Query Match

Best Local Similarity 78.7%; Score 11.8; DB 17; Length 70;

Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 TCCATGGTCTCACT 15
||||| ||||| ||

DB 12 TCCCTGGAGTCACT 26

RESULT 15

AZ799758

LOCUS

2M0057G19F Mouse 10kb plasmid UUGC1M library Mus musculus genomic

DEFINITION

clone UUGC2M0057G19 F, DNA sequence.

ACCESSION

AZ799758

VERSION

AZ799758.1 GI:12951196

AZ799758 72 bp DNA linear GSS 16-FEB-2001
2M0057G19F Mouse 10kb plasmid UUGC1M library Mus musculus genomic

clone UUGC2M0057G19 F, DNA sequence.

AZ799758 72 bp DNA linear GSS 16-FEB-2001

AZ799758.1 GI:12951196

KEYWORDS
SOURCE house mouse.
ORGANISM Mus musculus

REFERENCE
AUTHORS Dunn,D., Aoyagi,A., Barber,M., Beacorn,T., Duval,B., Hamil,C., Islam,H., Longacre,S., Mahmoud,M., Meenen,E., Pedersen,T., Reilly,M., Rose,M., Rose,R., Stokes,R., Tingey,A., von Niederhausern,A. and Wright,D., Weiss,R.

TITLE Mouse whole genome scaffolding with paired end reads from 10kb plasmid inserts

JOURNAL Unpublished (2000)

COMMENT Contact: Robert B. Weiss
University of Utah Genome Center
University of Utah
Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLC, UT 84112, USA
Tel: 801 585 5606
Fax: 801 585 7177
Email: ddunn@genetics.utah.edu
Insert Length: 10000 Std Error: 0.00
Plate: 0057 row: G column: 19
Seq primer: CGTGTAAACGACGCCACT
Class: plasmid ends
High quality sequence stop: 72.
Location/Qualifiers
1. .72
/organism="Mus musculus"
/strain="C57BL/6J"
/db_xref="taxon:10090"
/clone="DUGC2M0057G19"
/clone_lib="Mouse 10kb plasmid UUGC1M library"
/sex="Male"
/lab_host="E. Coli strain XL10-Gold, T1-resistant, F-"
/note="Vector: pWD42nv; Purified genomic DNA from M. musculus C57BL/6J (male) was obtained from the Jackson Laboratory Mouse DNA Resource (<http://www.jax.org/resources/documents/dnares/>). The DNA was hydrodynamically sheared by repeated passage through a 0.005 inch orifice at constant velocity. The sheared DNA was blunt end-repaired with T4 DNA polymerase and T4 polynucleotide kinase. Adaptor oligonucleotides were ligated to the blunt ends in high molar excess. The adaptor DNA was purified and size-selected for a 9.5 to 10.5 kb range using preparative agarose gel electrophoresis. Vector DNA was prepared from a derivative of pWD42 (gi14732114|gb|AF129072.1), a copy-number inducible derivative of plasmid R1. The vector was ligated with adaptors complementary to the insert adaptors and purified. The sheared, adaptor mouse DNA was annealed to adaptor vector DNA, and transformed into chemically-competent E. coli XL10-Gold (Stratagene) cells and selected for ampicillin resistance."

BASE COUNT 13 a 18 c 16 g 25 t
ORIGIN

Query Match 78.7%; Score 11.8; DB 17; Length 72;
Best Local Similarity 86.7%; Pred. No. 4e+04;
Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 TCCATGGTGCTCACT 15
||||| ||||| |
Db 48 TCCATGGTGCTCACT 62

Search completed: November 21, 2002, 06:51:59
Job time : 2153 secs

GenCore version 5.1.1.3
Copyright (c) 1993 - 2002 CompuGen Ltd.

OM nucleic - nucleic search, using sw model

Run on: November 21, 2002, 05:03:29 ; Search time 67 Seconds
(without alignments)
68.659 Million cell updates/sec

Title: US-09-716-320-3

Perfect score: 15

Sequence: 1 tccatggtgctact 15

Scoring table: IDENTITY_NUC

Gapop 10.0 , Gapext 1.0

Searched: 441362 seqs, 153338381 residues

Total number of hits satisfying chosen parameters: 687286

Minimum DB seq length: 0

Maximum DB seq length: 100

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

- 1: /cgn2_6/ptodata/1/ina/5A_COMB.seq:*
- 2: /cgn2_6/ptodata/1/ina/5B_COMB.seq:*
- 3: /cgn2_6/ptodata/1/ina/6A_COMB.seq:*
- 4: /cgn2_6/ptodata/1/ina/6B_COMB.seq:*
- 5: /cgn2_6/ptodata/1/ina/PCTUS_COMB.seq:*
- 6: /cgn2_6/ptodata/1/ina/backfiles1.seq:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Query	Score	Match	Length	DB	ID	Description
1	15	100.0	15	3	US-08-991-830A-3		Sequence 3, Appli
c	2	15	100.0	24	US-08-435-350-4		Sequence 4, Appli
3	14	93.3	15	2	US-08-740-821-1		Sequence 1, Appli
4	13	86.7	14	4	US-08-666-341A-105		Sequence 105, App
c	5	13	86.7	19	US-09-630-155-3		Sequence 3, Appli
6	13	86.7	20	4	US-09-089-111-3		Sequence 3, Appli
7	13	86.7	26	4	US-08-463-691-18		Sequence 18, Appli
8	13	86.7	26	4	US-08-255-236-6		Sequence 6, Appli
c	9	12.4	82.7	22	US-08-229-528-5		Sequence 5, Appli
10	12.4	82.7	47	4	US-09-338-907-248		Sequence 248, App
11	12.4	82.7	47	4	US-09-218-207-248		Sequence 248, App
c	12	12	80.0	27	US-08-503-730-44		Sequence 44, Appli
13	12	80.0	53	1	US-08-503-730-29		Sequence 29, Appli
c	14	12	80.0	62	US-08-503-730-30		Sequence 30, Appli
15	11.8	78.7	50	2	US-08-832-468-6		Sequence 6, Appli
c	16	11.8	78.7	54	US-08-363-240A-1077		Sequence 1077, Ap
17	11.8	78.7	54	4	US-08-584-040-4423		Sequence 4423, Ap
c	18	11.8	78.7	64	US-08-290-592E-41		Sequence 41, Appli
19	11.8	78.7	64	5	PCT-US96-09448-41		Sequence 41, Appli
c	20	11.8	78.7	100	US-08-655-086-3		Sequence 3, Appli
21	11.8	78.7	100	3	US-08-441-971-23		Sequence 23, Appli
c	22	11.8	78.7	100	US-08-221-653-23		Sequence 23, Appli
23	11.8	78.7	100	4	US-08-442-144A-23		Sequence 23, Appli
c	24	11.8	78.7	100	US-08-441-970-23		Sequence 23, Appli
25	11.4	76.0	15	4	US-09-081-646-198		Sequence 198, App
c	26	11.4	76.0	20	US-09-280-799-190		Sequence 190, App
27	11.4	76.0	26	2	US-08-759-581B-16		Sequence 16, Appli

28	11.4	76.0	26	4	US-09-304-711-16	Sequence 16, Appli
29	11.4	76.0	26	4	US-09-173-281-16	Sequence 16, Appli
30	11.4	76.0	30	4	US-09-368-770-8	Sequence 8, Appli
31	11.4	76.0	30	4	US-09-033-556-15	Sequence 15, Appli
c	32	11.4	36	4	US-09-198-119C-19	Sequence 19, Appli
c	33	11	73.3	14	PCT-US96-05611A-16	Sequence 16, Appli
c	34	11	73.3	15	US-08-268-381-1	Sequence 1, Appli
c	35	11	73.3	20	US-09-286-904-77	Sequence 77, Appli
c	36	11	73.3	20	US-09-640-101-77	Sequence 77, Appli
37	11	73.3	22	4	US-09-245-248B-63	Sequence 63, Appli
38	11	73.3	23	4	US-09-177-650-97	Sequence 97, Appli
c	39	11	73.3	27	US-08-083-948-9	Sequence 9, Appli
c	40	11	73.3	27	US-08-393-785-9	Sequence 9, Appli
c	41	11	73.3	27	US-08-475-694-9	Sequence 9, Appli
c	42	11	73.3	27	US-08-712-057-9	Sequence 9, Appli
43	11	73.3	28	3	US-08-441-971-73	Sequence 73, Appli
44	11	73.3	28	4	US-08-221-653-73	Sequence 73, Appli
45	11	73.3	28	4	US-08-442-144A-73	Sequence 73, Appli

ALIGNMENTS

RESULT 1
US-08-991-830A-3
; Sequence 3, Application US/08991830A
; Patent No. 6027892
; GENERAL INFORMATION:
; APPLICANT: Chang, Esther H.
; APPLICANT: Pirolo, Kathleen F.
; TITLE OF INVENTION: Compositions and Methods for Reducing Radiation and Drug Re
; NUMBER OF SEQUENCES: 9
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Sana A. Pratt
; STREET: 10821 Hillbrooke Lane
; CITY: Potomac
; STATE: MARYLAND
; COUNTRY: USA
; ZIP: 20854
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: Apple Macintosh
; OPERATING SYSTEM: Macintosh 7.5
; SOFTWARE: Microsoft Word 6.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/991,830A
; FILING DATE: 16 December 1997
; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 60/034,160
; FILING DATE: 30 December 1996
; ATTORNEY/AGENT INFORMATION:
; NAME: Sana A. Pratt
; REGISTRATION NUMBER: 39,441
; REFERENCE/DOCKET NUMBER:
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (301) 294-9171
; TELEFAX: (301) 294-7357
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 15 base pairs
; TYPE: Nucleic acid
; STRANDEDNESS: Single
; TOPOLOGY: Linear
; MOLECULE TYPE: DNA
US-08-991-830A-3

Query Match 100.0%; Score 15; DB 3; Length 15;
Best Local Similarity 100.0%; Pred. No. 17;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 TCCATGCTGCTACT 15
|||||

Double Pct,??

Db 1 TCCATGGTGCTCACT 15

RESULT 2
US-08-435-350-4/c
; Sequence 4, Application US/08435350
; Patent No. 5599704
; GENERAL INFORMATION:
; APPLICANT: James D. Thompson
; APPLICANT: Kenneth G. Draper
; TITLE OF INVENTION: METHOD AND REAGENT FOR
; TITLE OF INVENTION: TREATMENT OF BREAST CANCER
; NUMBER OF SEQUENCES: 118
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Lyon & Lyon
; STREET: 611 West Sixth Street
; CITY: Los Angeles
; STATE: California
; COUNTRY: USA
; ZIP: 90017
; COMPUTER READABLE FORM:
; MEDIUM TYPE: 3.5" Diskette, 1.44 Mb storage
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: IBM P.C. DOS (Version 5.0)
; SOFTWARE: WordPerfect (Version 5.1)
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/435,350
; FILING DATE: 05-MAY-1995
; CLASSIFICATION: 514
; PRIOR APPLICATION NUMBER: 07/936,531
; FILING DATE: August 26, 1992
; ATTORNEY/AGENT INFORMATION:
; NAME: Warburg, Richard J.
; REGISTRATION NUMBER: 32,327
; REFERENCE/DOCKET NUMBER: 197/245
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (213) 489-1600
; TELEFAX: (213) 955-0440
; TELEX: 67-3510
; INFORMATION FOR SEQ ID NO: 4:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 24
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
US-08-435-350-4

Query Match 100.0%; Score 15; DB 1; Length 24;
Best Local Similarity 100.0%; Pred. No. 17;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCCATGGTGCTCACT 15
Db 21 TCCATGGTGCTCACT 7

RESULT 3
US-08-740-821-1
; Sequence 1, Application US/08740821
; Patent No. 5910583
; GENERAL INFORMATION:
; APPLICANT: Marks, Jeffrey R.
; APPLICANT: Vaughn, James P.
; APPLICANT: Iglehart, James D.
; TITLE OF INVENTION: ANTISENSE OLIGONUCLEOTIDES
; NUMBER OF SEQUENCES: 8
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Bell, Seltzer, Park & Gibson, P.A.
; STREET: Post Office Drawer 34009
; CITY: Charlotte
; STATE: No. 5910583th Carolina
; COUNTRY: USA

; ZIP: 28234
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/740,821
; FILING DATE: 04-NOV-1996
; CLASSIFICATION: 514
; ATTORNEY/AGENT INFORMATION:
; NAME: Sibley, Kenneth D.
; REGISTRATION NUMBER: 31,665
; REFERENCE/DOCKET NUMBER: 5405-134
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 919-420-2200
; TELEFAX: 919-881-3175
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 15 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: other nucleic acid
; DESCRIPTION: /desc = "OLIGONUCLEOTIDE"
US-08-740-821-1

Query Match 93.3%; Score 14; DB 2; Length 15;
Best Local Similarity 100.0%; Pred. No. 59;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCCATGGTGCTCAC 14
Db 2 TCCATGGTGCTCAC 15

RESULT 4
US-08-666-341A-105
; Sequence 105, Application US/08666341A
; Patent No. 6365345
; GENERAL INFORMATION:
; APPLICANT:
; TITLE OF INVENTION: Antisense nucleic Acids for the
; TITLE OF INVENTION: prevention and treatment of disorders in which expression
; TITLE OF INVENTION: of c-erbB plays a role
; NUMBER OF SEQUENCES: 106
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Jacobson, Price, Holman and Stern, PLLC
; STREET: 400 Seventh street, N.W.
; CITY: Washington
; STATE: D.C.
; COUNTRY: USA
; ZIP: 20004
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disc
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25 (EPO)
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/666,341A
; FILING DATE: 15-AUG-1996
; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: EP 93120710.4
; INFORMATION FOR SEQ ID NO: 105:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 14 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: unknown
; TOPOLOGY: unknown
; MOLECULE TYPE: DNA (genomic)
; ANTI-SENSE: YES
US-08-666-341A-105

Query Match 86.7%; Score 13; DB 4; Length 14;
Best Local Similarity 100.0%; Pred. No. 2e+02;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 3 CATGGTGTCTCACT 15
Db 1 CATGGTGTCTCACT 13

RESULT 5

US-09-630-155-3/C
; Sequence 3, Application US/09630155
; Patent No. 6414130
; GENERAL INFORMATION:
; APPLICANT: Doherty, Joni Kristin and Gail M. Clinton
; TITLE OF INVENTION: HER-2 BINDING ANTAGONISTS
; NUMBER OF SEQUENCES: 9
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: DAVIS WRIGHT TREMAINE LLP
; STREET: 1501 Fourth Avenue, 2600 Century Square
; CITY: Seattle
; STATE: Washington
; COUNTRY: U.S.A.
; ZIP: 98101
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: PC compatible
; OPERATING SYSTEM: Windows95
; SOFTWARE: Word
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/630,155
; FILING DATE: 16-Jan-2001
; CLASSIFICATION: <Unknown>
; ATTORNEY/AGENT INFORMATION:
; NAME: Davison, Barry L.
; REGISTRATION NUMBER: 47,309
; REFERENCE/DOCKET NUMBER: 49321-10
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 206 628-7621
; TELEFAX: 206 628-7699
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 19
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: unknown
; MOLECULE TYPE: oligonucleotide
; SEQUENCE DESCRIPTION: SEQ ID NO: 3:
US-09-630-155-3

Query Match 86.7%; Score 13; DB 4; Length 19;
Best Local Similarity 100.0%; Pred. No. 2.1e+02;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCATGGTGTCTCA 13
Db 13 TCATGGTGTCTCA 1

RESULT 6

US-09-089-111-3
; Sequence 3, Application US/09089111
; Patent No. 6162965
; GENERAL INFORMATION:
; APPLICANT: Hansen, Genevieve
; TITLE OF INVENTION: Plant Transformation Methods
; NUMBER OF SEQUENCES: 12
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: No. 6162965artis Corporation
; STREET: 3054 Cornwallis Rd.
; CITY: Research Triangle Park
; STATE: NC

COUNTRY: USA
ZIP: 27709
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/089,111
FILING DATE: 02-Jun-1998
CLASSIFICATION:
ATTORNEY/AGENT INFORMATION:
NAME: Hoxie, Thomas
REGISTRATION NUMBER: 32,993
REFERENCE/DOCKET NUMBER: CGC1928/R
TELECOMMUNICATION INFORMATION:
TELEPHONE: 919-541-8614
TELEFAX: 919-541-8689
INFORMATION FOR SEQ ID NO: 3:
SEQUENCE CHARACTERISTICS:
LENGTH: 20 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA (genomic)
HYPOTHETICAL: NO
ANTI-SENSE: NO
IMMEDIATE SOURCE:
CLONE: MTL (P)
US-09-089-111-3

Query Match 86.7%; Score 13; DB 4; Length 20;
Best Local Similarity 100.0%; Pred. No. 2.1e+02;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCCATGGTGTCTCA 13
Db 6 TCCATGGTGTCTCA 18

RESULT 7

US-08-463-691-18
; Sequence 18, Application US/08463691
; Patent No. 6165712
; GENERAL INFORMATION:
; APPLICANT: J. Gordon Foulkes et al.
; TITLE OF INVENTION: Methods of Transcriptionally
; TITLE OF INVENTION: Modulating Expression of Viral Genes and Genes Useful for t
; TITLE OF INVENTION: Production of Proteins
; NUMBER OF SEQUENCES: 20
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: John P. White, Esq.
; STREET: 1185 Avenue of the Americas
; CITY: New York
; STATE: New York
; COUNTRY: USA
; ZIP: 10036
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/463,691
; FILING DATE: 5-JUN-1995
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: White, John P.
; REGISTRATION NUMBER: 28,678
; REFERENCE/DOCKET NUMBER: 26134-G1Z
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 212-278-0400
; TELEFAX: 212-591-0525

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;
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; TELEX:
; INFORMATION FOR SEQ ID NO: 18:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 26 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA (genomic)
US-08-463-691-18

Query Match      86.7%; Score 13; DB 4; Length 26;
Best Local Similarity 100.0%; Pred. No. 2.1e+02;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 3 CATGGTGCTCACT 15
   |||||
Db 1 CATGGTGCTCACT 13

RESULT 8
US-08-255-236-6
; Sequence 6, Application US/08255236
; Patent No. 6203976
; GENERAL INFORMATION:
; APPLICANT: Foulkes, J. Gordon
; TITLE OF INVENTION: METHODS OF TRANSCRIPTIONALLY MODULATING EXPRESSION OF
; FILE REFERENCE: 2613491
; CURRENT APPLICATION NUMBER: US/08/255,236
; CURRENT FILING DATE: 1994-06-07
; NUMBER OF SEQ ID NOS: 18
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 6
; LENGTH: 26
; TYPE: DNA
; ORGANISM: Homo sapiens
US-08-255-236-6

Query Match      86.7%; Score 13; DB 4; Length 26;
Best Local Similarity 100.0%; Pred. No. 2.1e+02;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 3 CATGGTGCTCACT 15
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Db 1 CATGGTGCTCACT 13

RESULT 9
US-08-229-528-5/c
; Sequence 5, Application US/08229528
; Patent No. 5837447
; GENERAL INFORMATION:
; APPLICANT: GORSKI, Jack
; TITLE OF INVENTION: MONITORING AN IMMUNE RESPONSE BY ANALYSIS OF AMPLIFIED IMMUNO
; NUMBER OF SEQUENCES: 51
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Foley & Lardner
; STREET: P. O. Box 1497
; CITY: Madison
; STATE: Wisconsin
; COUNTRY: USA
; ZIP: 53701-1497
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette, 3.50 inch, 1.44 Mb storage
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: MS-DOS 3.3
; SOFTWARE: Wordperfect, Version 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/229,528
; FILING DATE: 18-APR-1994
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 07/868,569
; FILING DATE: 15-APR-1992
```

```
;
;
; ATTORNEY/AGENT INFORMATION:
; NAME: Scanlon, William J.
; REGISTRATION NUMBER: 30,136
; REFERENCE/DOCKET NUMBER: 30383/133
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (608) 258-4284
; TELEFAX: (608) 258-4258
; INFORMATION FOR SEQ ID NO: 5:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 22 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: Other nucleic acid;
; DESCRIPTION: Synthetic DNA oligonucleotide
US-08-229-528-5

Query Match      82.7%; Score 12.4; DB 2; Length 22;
Best Local Similarity 92.9%; Pred. No. 4.3e+02;
Matches 13; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 TCCATGGTGCTCAC 14
   |||||
Db 21 TCCAAAGTGCTCAC 8

RESULT 10
US-09-338-907-248
; Sequence 248, Application US/09338907
; Patent No. 6265546
; GENERAL INFORMATION:
; APPLICANT: Cohen, Daniel
; APPLICANT: Blumenfeld, Marta
; APPLICANT: Ilya, Chumakov
; APPLICANT: Bougueleret, Lydie
; TITLE OF INVENTION: PROSTATE CANCER GENE
; FILE REFERENCE: GENSET.18CPICP
; CURRENT APPLICATION NUMBER: US/09/338,907
; CURRENT FILING DATE: 1999-06-23
; EARLIER APPLICATION NUMBER: 08/996,306
; EARLIER FILING DATE: 1997-12-22
; EARLIER APPLICATION NUMBER: 60/099,658
; EARLIER FILING DATE: 1998-09-09
; EARLIER APPLICATION NUMBER: 09/218,207
; EARLIER FILING DATE: 1998-12-22
; NUMBER OF SEQ ID NOS: 578
; SOFTWARE: Patent.pm
; SEQ ID NO 248
; LENGTH: 47
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: allele
; LOCATION: 1.47
; OTHER INFORMATION: polymorphic fragment 99-148-366
; FEATURE:
; NAME/KEY: allele
; LOCATION: 24
; OTHER INFORMATION: polymorphic base G
; FEATURE:
; NAME/KEY: primer_bind
; LOCATION: 1.23
; OTHER INFORMATION: potential microsequencing oligo 99-148-366.mis1
; FEATURE:
; NAME/KEY: primer_bind
; LOCATION: 25.47
; OTHER INFORMATION: complement potential microsequencing oligo 99-148-366.mis2
US-09-338-907-248

Query Match      82.7%; Score 12.4; DB 4; Length 47;
Best Local Similarity 92.9%; Pred. No. 4.4e+02;
Matches 13; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
```

QY 1 TCCATGGTGTCTCAC 14
||| |||||||||
Db 18 TCCCTGGTGTCTCAC 31

RESULT 11

US-09-218-207-248
; Sequence 248, Application US/09218207
; Patent No. 6346381
; GENERAL INFORMATION:
; APPLICANT: Cohen, Daniel
; APPLICANT: Blumenfeld, Marta
; APPLICANT: Ilya, Chumakov
; APPLICANT: Bougueleret, Lydie
; TITLE OF INVENTION: Prostate cancer gene
; FILE REFERENCE: GENSET.018CPI
; CURRENT APPLICATION NUMBER: US/09/218,207
; CURRENT FILING DATE: 1998-12-22
; EARLIER APPLICATION NUMBER: 08/996,306
; EARLIER FILING DATE: 1997-12-22
; EARLIER APPLICATION NUMBER: 60/099,658
; EARLIER FILING DATE: 1998-09-09
; NUMBER OF SEQ ID NOS: 578
; SOFTWARE: Patent.pm
; SEQ ID NO 248
; LENGTH: 47
; TYPE: DNA
; ORGANISM: Homo Sapiens
; FEATURE:
; NAME/KEY: allele
; LOCATION: 1..47
; OTHER INFORMATION: polymorphic fragment 99-148-366
; FEATURE:
; NAME/KEY: allele
; LOCATION: 24
; OTHER INFORMATION: polymorphic base G
; FEATURE:
; NAME/KEY: primer_bind
; LOCATION: 1..23
; OTHER INFORMATION: potential microsequencing oligo 99-148-366.mis1
; FEATURE:
; NAME/KEY: primer_bind
; LOCATION: 25..47
; OTHER INFORMATION: complement potential microsequencing oligo 99-148-366.mis2

US-09-218-207-248
Query Match 82.7%; Score 12.4; DB 4; Length 47;
Best Local Similarity 92.9%; Pred. No. 4.4e+02;
Matches 13; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 TCCATGGTGTCTCAC 14
||| |||||||||
Db 18 TCCCTGGTGTCTCAC 31

RESULT 12

US-08-503-730-44/c
; Sequence 44, Application US/08503730
; Patent No. 5780269
; GENERAL INFORMATION:
; APPLICANT: Inouye, Sumiko
; APPLICANT: Inouye, Masayori
; TITLE OF INVENTION: NEW HYBRID MOLECULES
; NUMBER OF SEQUENCES: 45
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Weiser & Associates
; STREET: 230 South Fifteenth Street Suite 500
; CITY: Philadelphia
; STATE: PA
; COUNTRY: USA
; ZIP: 19102
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk

; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/503,730
; FILING DATE: 18-JUL-1995
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/817,430
; FILING DATE: 06-JAN-1992
; ATTORNEY/AGENT INFORMATION:
; NAME: Weiser, Gerard J.
; REGISTRATION NUMBER: 19,763
; REFERENCE/DOCKET NUMBER: 377(913).6277P
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 215-875-8383
; TELEFAX: 215-875-8394
; INFORMATION FOR SEQ ID NO: 44:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 27 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
US-08-503-730-44

Query Match 80.0%; Score 12; DB 1; Length 27;
Best Local Similarity 100.0%; Pred. No. 7.1e+02;
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2 CCATGGTGCTCA 13
|||||||
Db 16 CCATGGTGCTCA 5

RESULT 13

US-08-503-730-29/c
; Sequence 29, Application US/08503730
; Patent No. 5780269
; GENERAL INFORMATION:
; APPLICANT: Inouye, Sumiko
; APPLICANT: Inouye, Masayori
; TITLE OF INVENTION: NEW HYBRID MOLECULES
; NUMBER OF SEQUENCES: 45
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Weiser & Associates
; STREET: 230 South Fifteenth Street Suite 500
; CITY: Philadelphia
; STATE: PA
; COUNTRY: USA
; ZIP: 19102
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/503,730
; FILING DATE: 18-JUL-1995
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/817,430
; FILING DATE: 06-JAN-1992
; ATTORNEY/AGENT INFORMATION:
; NAME: Weiser, Gerard J.
; REGISTRATION NUMBER: 19,763
; REFERENCE/DOCKET NUMBER: 377(913).6277P
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 215-875-8383
; TELEFAX: 215-875-8394
; INFORMATION FOR SEQ ID NO: 29:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 53 base pairs
; TYPE: nucleic acid

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; STRANDEDNESS: single
; TOPOLOGY: both
US-08-503-730-29

Query Match      80.0%; Score 12; DB 1; Length 53;
Best Local Similarity 100.0%; Pred. No. 7.3e+02;
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY  2 CCATGGTGCTCA 13
Db  13 CCATGGTGCTCA 2

RESULT 14
US-08-503-730-30/c
; Sequence 30, Application US/08503730
; Patent No. 5780269
; GENERAL INFORMATION:
; APPLICANT: Inouye, Sumiko
; TITLE OF INVENTION: NEW HYBRID MOLECULES
; NUMBER OF SEQUENCES: 45
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Weiser & Associates
; STREET: 230 South Fifteenth Street Suite 500
; CITY: Philadelphia
; STATE: PA
; COUNTRY: USA
; ZIP: 19102
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/503,730
; FILING DATE: 18-JUL-1995
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/817,430
; FILING DATE: 06-JAN-1992
; ATTORNEY/AGENT INFORMATION:
; NAME: Weiser, Gerard J.
; REGISTRATION NUMBER: 19,763
; REFERENCE/DOCKET NUMBER: 377(913), 6277P
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 215-875-8383
; TELEFAX: 215-875-8394
; INFORMATION FOR SEQ ID NO: 30:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 62 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: both
US-08-503-730-30

Query Match      80.0%; Score 12; DB 1; Length 62;
Best Local Similarity 100.0%; Pred. No. 7.3e+02;
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY  2 CCATGGTGCTCA 13
Db  13 CCATGGTGCTCA 2

RESULT 15
US-08-832-468-6
; Sequence 6, Application US/08832468
; Patent No. 5962237
; GENERAL INFORMATION:
; APPLICANT: Ts'o, Paul O.P.
; ADDRESSEE: Wang, Zheng-pin
; APPLICANT: Lesko, Stephen A.
```

```
; APPLICANT: Nelson, William G.
; APPLICANT: Partin, Alan W.
; TITLE OF INVENTION: A METHOD OF ENRICHING RARE CELLS
; NUMBER OF SEQUENCES: 10
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Leydig, Voit & Mayer, Ltd.
; STREET: 700 Thirteenth St., NW
; CITY: Washington
; STATE: DC
; COUNTRY: US
; ZIP: 20005
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/832,468
; FILING DATE:
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 60-014929
; FILING DATE: 05-APR-1996
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Jay, Jeremy M.
; REGISTRATION NUMBER: 33587
; REFERENCE/DOCKET NUMBER: 72466
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 202-737-6770
; TELEFAX: 202-737-6776
; INFORMATION FOR SEQ ID NO: 6:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 50 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: other nucleic acid (synthetic DNA)
US-08-832-468-6

Query Match      78.7%; Score 11.8; DB 2; Length 50;
Best Local Similarity 86.7%; Pred. No. 9.3e+02;
Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY  1 TCCATGGTGCTCACT 15
Db  19 TCCATAGTGCTCCCT 33

Search completed: November 21, 2002, 06:53:17
Job time : 69 secs
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OM nucleic - nucleic search, using sw model

Run on: November 21, 2002, 06:15:59 ; Search time 83 Seconds

(without alignments)

68.445 Million cell updates/sec

Title: US-09-716-320-3

Perfect score: 15

Sequence: 1 tccatgggtctact 15

Scoring table: IDENTITY_NUC

Gapop 10.0 , Gapext 1.0

Searched: 335578 seqs, 189365133 residues

Total number of hits satisfying chosen parameters: 195614

Minimum DB seq length: 0

Maximum DB seq length: 100

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Published_Applications_NA.*

- 1: /cgn2_6/ptodata/2/pubpna/US07_PUBCOMB.seq.*
- 2: /cgn2_6/ptodata/2/pubpna/PCT_NEW_PUB.seq.*
- 3: /cgn2_6/ptodata/2/pubpna/US06_NEW_PUB.seq.*
- 4: /cgn2_6/ptodata/2/pubpna/US06_PUBCOMB.seq.*
- 5: /cgn2_6/ptodata/2/pubpna/US07_NEW_PUB.seq.*
- 6: /cgn2_6/ptodata/2/pubpna/PCTUS_PUBCOMB.seq.*
- 7: /cgn2_6/ptodata/2/pubpna/US08_NEW_PUB.seq.*
- 8: /cgn2_6/ptodata/2/pubpna/US08_PUBCOMB.seq.*
- 9: /cgn2_6/ptodata/2/pubpna/US09_NEW_PUB.seq.*
- 10: /cgn2_6/ptodata/2/pubpna/US09_PUBCOMB.seq.*
- 11: /cgn2_6/ptodata/2/pubpna/US10_NEW_PUB.seq.*
- 12: /cgn2_6/ptodata/2/pubpna/US10_PUBCOMB.seq.*
- 13: /cgn2_6/ptodata/2/pubpna/US60_NEW_PUB.seq.*
- 14: /cgn2_6/ptodata/2/pubpna/US60_PUBCOMB.seq.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match %	Length	DB ID	Description
1	12.4	82.7	47	9	US-09-853-526-248
2	12.4	82.7	47	10	US-09-901-484A-248
3	11.8	78.7	64	10	US-09-158-120A-41
4	11.8	78.7	71	10	US-09-783-590-4259
5	11.4	76.0	17	10	US-09-866-108-1434
6	11.4	76.0	17	10	US-09-866-108-1435
7	11.4	76.0	17	10	US-09-866-108-1436
8	11.4	76.0	17	10	US-09-866-108-1437
9	11.4	76.0	17	10	US-09-866-108-1438
10	11.4	76.0	17	10	US-09-866-108-6654
11	11.4	76.0	17	10	US-09-866-108-6655
12	11.4	76.0	17	10	US-09-866-108-6656
13	11.4	76.0	17	10	US-09-866-108-6657
14	11.4	76.0	17	10	US-09-866-108-6658
15	11.4	76.0	17	10	US-09-866-108-8318
16	11.4	76.0	17	10	US-09-866-108-8319
17	11.4	76.0	17	10	US-09-866-108-8320
18	11.4	76.0	17	10	US-09-866-108-8321
19	11.4	76.0	17	10	US-09-866-108-8322

20	11.4	76.0	20	10	US-09-800-629A-190
c 21	11.4	76.0	25	10	US-09-866-108-4363
c 22	11.4	76.0	25	10	US-09-866-108-4364
c 23	11.4	76.0	25	10	US-09-866-108-4365
c 24	11.4	76.0	25	10	US-09-866-108-4366
c 25	11.4	76.0	25	10	US-09-866-108-4367
c 26	11.4	76.0	25	10	US-09-866-108-4368
c 27	11.4	76.0	25	10	US-09-866-108-4369
c 28	11.4	76.0	25	10	US-09-866-108-4370
c 29	11.4	76.0	25	10	US-09-866-108-4371
c 30	11.4	76.0	25	10	US-09-866-108-4372
c 31	11.4	76.0	25	10	US-09-866-108-4373
c 32	11.4	76.0	25	10	US-09-866-108-4374
c 33	11.4	76.0	25	10	US-09-866-108-4375
34	11.4	76.0	25	10	US-09-866-108-11546
35	11.4	76.0	25	10	US-09-866-108-11547
36	11.4	76.0	25	10	US-09-866-108-11548
37	11.4	76.0	25	10	US-09-866-108-11549
38	11.4	76.0	25	10	US-09-866-108-11550
39	11.4	76.0	25	10	US-09-866-108-11551
40	11.4	76.0	25	10	US-09-866-108-11552
41	11.4	76.0	25	10	US-09-866-108-11553
42	11.4	76.0	25	10	US-09-866-108-11554
43	11.4	76.0	25	10	US-09-866-108-11555
44	11.4	76.0	25	10	US-09-866-108-11556
45	11.4	76.0	25	10	US-09-866-108-11557

ALIGNMENTS

RESULT 1

US-09-853-526-248
; Sequence 248, Application US/09853526
; Patent No. US20020165345A1
; GENERAL INFORMATION:
; APPLICANT: Cohen, Daniel
; APPLICANT: Blumenfeld, Marta
; APPLICANT: Ilya, Chumakov
; APPLICANT: Bougueleret, Lydie
; TITLE OF INVENTION: PROSTATE CANCER GENE
; FILE REFERENCE: GENSET.18CPICP
; CURRENT APPLICATION NUMBER: US/09/853,526
; PRIOR FILING DATE: 2001-05-11
; PRIOR APPLICATION NUMBER: 09/338,907
; PRIOR FILING DATE: 1999-06-23
; PRIOR APPLICATION NUMBER: 08/996,306
; PRIOR FILING DATE: 1997-12-22
; PRIOR APPLICATION NUMBER: 60/099,658
; PRIOR FILING DATE: 1998-09-09
; PRIOR APPLICATION NUMBER: 09/218,207
; PRIOR FILING DATE: 1998-12-22
; NUMBER OF SEQ ID NOS: 578
; SOFTWARE: Patent.pm
; SEQ ID NO 248
; LENGTH: 47
; TYPE: DNA
; ORGANISM: Homo Sapiens
; FEATURE:
; NAME/KEY: allele
; LOCATION: 1..47
; OTHER INFORMATION: polymorphic fragment 99-148-366
; NAME/KEY: allele
; LOCATION: 24
; OTHER INFORMATION: polymorphic base G
; NAME/KEY: primer_bind
; LOCATION: 1..23
; OTHER INFORMATION: potential microsequencing oligo 99-148-366.mis1
; NAME/KEY: primer_bind
; LOCATION: 25..47
; OTHER INFORMATION: complement potential microsequencing oligo 99-148-366.mis2
; US-09-853-526-248

Sequence 190, App	Sequence 4363, Ap
Sequence 4364, Ap	Sequence 4365, Ap
Sequence 4366, Ap	Sequence 4367, Ap
Sequence 4368, Ap	Sequence 4369, Ap
Sequence 4370, Ap	Sequence 4371, Ap
Sequence 4372, Ap	Sequence 4373, Ap
Sequence 4374, Ap	Sequence 4375, Ap
Sequence 11546, A	Sequence 11547, A
Sequence 11548, A	Sequence 11549, A
Sequence 11550, A	Sequence 11551, A
Sequence 11552, A	Sequence 11553, A
Sequence 11554, A	Sequence 11555, A
Sequence 11556, A	Sequence 11557, A

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Query Match      82.7%; Score 12.4; DB 9; Length 47;
Best Local Similarity 92.9%; Pred. No. 5.1e+02;
Matches 13; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 TCCATGGTGCTCAC 14
    ||| |||||
Db 18 TCCCTGGTGCTCAC 31

RESULT 2
US-09-901-484A-248
; Sequence 248, Application US/09901484A
; Patent No. US20020119460A1
; GENERAL INFORMATION:
; APPLICANT: Cohen, Daniel
; APPLICANT: Blumenfeld, Marta
; APPLICANT: Chumakov, Ilya
; APPLICANT: Bougueleret, Lydie
; TITLE OF INVENTION: Prostate Cancer Gene
; FILE REFERENCE: GEN-T11XC3D2
; CURRENT APPLICATION NUMBER: US/09/901.484A
; CURRENT FILING DATE: 2001-07-09
; PRIOR APPLICATION NUMBER: US 08/996,306
; PRIOR FILING DATE: 1997-12-22
; PRIOR APPLICATION NUMBER: US 60/099,658
; PRIOR FILING DATE: 1998-09-09
; PRIOR APPLICATION NUMBER: US 09/218,207
; PRIOR FILING DATE: 1998-12-22
; PRIOR APPLICATION NUMBER: US 09/338,907
; PRIOR FILING DATE: 1999-06-23
; PRIOR APPLICATION NUMBER: US 09/853,526
; PRIOR FILING DATE: 2001-05-11
; NUMBER OF SEQ ID NOS: 578
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 248
; LENGTH: 47
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: allele
; LOCATION: (1)..(47)
; OTHER INFORMATION: polymorphic fragment 99-148-366
; NAME/KEY: allele
; LOCATION: (24)..(24)
; OTHER INFORMATION: polymorphic base G
; NAME/KEY: primer_bind
; LOCATION: (1)..(23)
; OTHER INFORMATION: potential microsequencing oligo 99-148-366.mis1
; NAME/KEY: primer_bind
; LOCATION: (25)..(47)
; OTHER INFORMATION: complement potential microsequencing oligo 99-148-366.mis2
US-09-901-484A-248

Query Match      82.7%; Score 12.4; DB 10; Length 47;
Best Local Similarity 92.9%; Pred. No. 5.1e+02;
Matches 13; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 TCCATGGTGCTCAC 14
    ||| |||||
Db 18 TCCCTGGTGCTCAC 31

RESULT 3
US-09-158-120A-41/c
; Sequence 41, Application US/09158120A
; Patent No. US20020102257A1
; GENERAL INFORMATION:
; APPLICANT: JOHNSON, L.
; TITLE OF INVENTION: Human Murine Chimeric Antibodies Against
; TITLE OF INVENTION: Respiratory Syncytial Virus
; NUMBER OF SEQUENCES: 49
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: CARELLA, BYRNE, BAIN, GILFILLAN, CECCHI,
```

```
; ADDRESSEE: STEWART & OLSTEIN
; STREET: 6 BECKER FARM ROAD
; CITY: ROSELAND
; STATE: NEW JERSEY
; COUNTRY: USA
; ZIP: 07068
; COMPUTER READABLE FORM:
; MEDIUM TYPE: 3.5 INCH DISKETTE
; COMPUTER: P160
; OPERATING SYSTEM: Windows95
; SOFTWARE: MS Word 97
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/158,120A
; FILING DATE: September 21, 1998
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/290,592
; FILING DATE: August 15, 1994
; APPLICATION NUMBER: 07/813,372
; FILING DATE: December 23, 1991
; ATTORNEY/AGENT INFORMATION:
; NAME: Olstein, Elliot M.
; REGISTRATION NUMBER: 24,025
; REFERENCE/DOCKET NUMBER: 469201-367
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 973-994-1700
; TELEFAX: 973-994-1744
; INFORMATION FOR SEQ ID NO: 41:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 64 NUCLEOTIDES
; TYPE: NUCLEIC ACID
; STRANDEDNESS: SINGLE
; TOPOLOGY: LINEAR
; MOLECULE TYPE: Oligonucleotide
US-09-158-120A-41

Query Match      78.7%; Score 11.8; DB 10; Length 64;
Best Local Similarity 86.7%; Pred. No. 1.1e+03;
Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 TCCATGGTGCTCACT 15
    ||||| |||||
Db 24 TCCATGGTGCTCACT 10

RESULT 4
US-09-783-590-4259
; Sequence 4259, Application US/09783590
; Patent No. US20020110850A1
; GENERAL INFORMATION:
; APPLICANT: Dillon, Patrick J.
; APPLICANT: Haseltine, William A.
; APPLICANT: Li, Haodong
; APPLICANT: Rosen, Craig A.
; APPLICANT: Ruben, Steven M.
; TITLE OF INVENTION: Human Genes, Sequences, and Expression Products 16.2
; FILE REFERENCE: PO-16.2C1
; CURRENT APPLICATION NUMBER: US/09/783,590
; CURRENT FILING DATE: 2000-02-15
; PRIOR APPLICATION NUMBER: 08/420,856
; PRIOR FILING DATE: 1995-04-12
; PRIOR APPLICATION NUMBER: 08/346,731
; PRIOR FILING DATE: 1994-11-21
; NUMBER OF SEQ ID NOS: 12485
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 4259
; LENGTH: 71
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (6)
; OTHER INFORMATION: n equals a,t,g, or c
```


Db 16 CCATTGTGCTCAC 4

RESULT 7

US-09-866-108-1436/c
; Sequence 1436, Application US/09866108
; Patent No. US20020048800A1
; GENERAL INFORMATION:
; APPLICANT: GU, Yizhong
; APPLICANT: JI, Yonggang
; APPLICANT: PENN, Sharron G.
; APPLICANT: HANZEL, David K.
; APPLICANT: RANK, David R.
; APPLICANT: CHEN, Wensheng
; APPLICANT: SHANNON, Mark
; TITLE OF INVENTION: MYOSIN-LIKE GENE EXPRESSED IN HUMAN HEART AND MUSCLE
; FILE REFERENCE: AEOMICA-7
; CURRENT APPLICATION NUMBER: US/09/866,108
; CURRENT FILING DATE: 2001-05-25
; PRIOR APPLICATION NUMBER: US 60/207,456
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: GB 24263.6
; PRIOR FILING DATE: 2000-10-04
; PRIOR APPLICATION NUMBER: US 60/236,359
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: PCT/US01/00666
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00667
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00664
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00669
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00668
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00663
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00662
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00661
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00665
; PRIOR FILING DATE: 2001-01-30
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; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00663
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; PRIOR APPLICATION NUMBER: PCT/US01/00662
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00661
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00670
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: US 60/234,687
; PRIOR FILING DATE: 2000-09-21
; PRIOR APPLICATION NUMBER: US 60/266,860
; PRIOR FILING DATE: 2001-02-05
; NUMBER OF SEQ ID NOS: 15752
; SOFTWARE: Aeomica Sequence Listing Engine
; SEQ ID NO 1436
; LENGTH: 17
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-866-108-1436

Query Match 76.0%; Score 11.4; DB 10; Length 17;

Best Local Similarity 92.3%; Pred. No. 1.7e+03;

Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2 CCATTGTGCTCAC 14

Db 15 CCATTGTGCTCAC 3

RESULT 8

US-09-866-108-1437/c
; Sequence 1437, Application US/09866108
; Patent No. US20020048800A1
; GENERAL INFORMATION:
; APPLICANT: GU, Yizhong
; APPLICANT: JI, Yonggang
; APPLICANT: PENN, Sharron G.
; APPLICANT: HANZEL, David K.
; APPLICANT: RANK, David R.
; APPLICANT: CHEN, Wensheng
; APPLICANT: SHANNON, Mark
; TITLE OF INVENTION: MYOSIN-LIKE GENE EXPRESSED IN HUMAN HEART AND MUSCLE
; FILE REFERENCE: AEOMICA-7
; CURRENT APPLICATION NUMBER: US/09/866,108
; CURRENT FILING DATE: 2001-05-25
; PRIOR APPLICATION NUMBER: US 60/207,456

; APPLICANT: PENN, Sharron G.
; APPLICANT: HANZEL, David K.
; APPLICANT: RANK, David R.
; APPLICANT: CHEN, Wensheng
; APPLICANT: SHANNON, Mark
; TITLE OF INVENTION: MYOSIN-LIKE GENE EXPRESSED IN HUMAN HEART AND MUSCLE
; FILE REFERENCE: AEOMICA-7
; CURRENT APPLICATION NUMBER: US/09/866,108
; CURRENT FILING DATE: 2001-05-25
; PRIOR APPLICATION NUMBER: US 60/207,456
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: GB 24263.6
; PRIOR FILING DATE: 2000-10-04
; PRIOR APPLICATION NUMBER: US 60/236,359
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: PCT/US01/00666
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00667
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00664
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00669
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00665
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00668
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00663
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00662
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00661
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00670
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: US 60/234,687
; PRIOR FILING DATE: 2000-09-21
; PRIOR APPLICATION NUMBER: US 60/266,860
; PRIOR FILING DATE: 2001-02-05
; NUMBER OF SEQ ID NOS: 15752
; SOFTWARE: Aeomica Sequence Listing Engine
; SEQ ID NO 1437
; LENGTH: 17
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-866-108-1437

Query Match

Best Local Similarity 92.3%; Score 11.4; DB 10; Length 17;

Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2 CCATTGTGCTCAC 14

Db 14 CCATTGTGCTCAC 2

RESULT 9

US-09-866-108-1438/c
; Sequence 1438, Application US/09866108
; Patent No. US20020048800A1
; GENERAL INFORMATION:
; APPLICANT: GU, Yizhong
; APPLICANT: JI, Yonggang
; APPLICANT: PENN, Sharron G.
; APPLICANT: HANZEL, David K.
; APPLICANT: RANK, David R.
; APPLICANT: CHEN, Wensheng
; APPLICANT: SHANNON, Mark
; TITLE OF INVENTION: MYOSIN-LIKE GENE EXPRESSED IN HUMAN HEART AND MUSCLE
; FILE REFERENCE: AEOMICA-7
; CURRENT APPLICATION NUMBER: US/09/866,108
; CURRENT FILING DATE: 2001-05-25
; PRIOR APPLICATION NUMBER: US 60/207,456

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; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: GB 24263.6
; PRIOR FILING DATE: 2000-10-04
; PRIOR APPLICATION NUMBER: US 60/236,359
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: PCT/US01/00666
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00667
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00664
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00669
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00665
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00668
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00663
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00662
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00661
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00668
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00663
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00670
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: US 60/234,687
; PRIOR FILING DATE: 2000-09-21
; PRIOR APPLICATION NUMBER: US 60/266,860
; PRIOR FILING DATE: 2001-02-05
; NUMBER OF SEQ ID NOS: 15752
; SOFTWARE: Aecomica Sequence Listing Engine
; SEQ ID NO 1438
; LENGTH: 17
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-866-108-1438
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Query Match          76.0%; Score 11.4; DB 10; Length 17;
Best Local Similarity 92.3%; Pred. No. 1.7e+03;
Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      2 CCATGTGCTCAC 14
DB      13 CCATGTGCTCAC 1

RESULT 10
US-09-866-108-6654
; Sequence 6654, Application US/09866108
; Patent No. US20020048800A1
; GENERAL INFORMATION:
; APPLICANT: GU, Yizhong
; APPLICANT: JI, Yonggang
; APPLICANT: PENN, Sharron G.
; APPLICANT: HANZEL, David K.
; APPLICANT: RANK, David R.
; APPLICANT: CHEN, Wensheng
; APPLICANT: SHANNON, Mark
; TITLE OF INVENTION: MYOSIN-LIKE GENE EXPRESSED IN HUMAN HEART AND MUSCLE
; FILE REFERENCE: AEOMICA-7
; CURRENT APPLICATION NUMBER: US/09/866,108
; CURRENT FILING DATE: 2001-05-25
; PRIOR APPLICATION NUMBER: US 60/207,456
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: GB 24263.6
; PRIOR FILING DATE: 2000-10-04
; PRIOR APPLICATION NUMBER: US 60/236,359
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: PCT/US01/00666
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00667
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: US 60/207,456
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: GB 24263.6
; PRIOR FILING DATE: 2000-10-04
; PRIOR APPLICATION NUMBER: US 60/236,359
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: PCT/US01/00666
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00667
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00664
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; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00669
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00665
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00668
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00663
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; PRIOR APPLICATION NUMBER: PCT/US01/00662
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00661
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00670
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: US 60/234,687
; PRIOR FILING DATE: 2000-09-21
; PRIOR APPLICATION NUMBER: US 60/266,860
; PRIOR FILING DATE: 2001-02-05
; NUMBER OF SEQ ID NOS: 15752
; SOFTWARE: Aecomica Sequence Listing Engine
; SEQ ID NO 6654
; LENGTH: 17
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-866-108-6654

Query Match          76.0%; Score 11.4; DB 10; Length 17;
Best Local Similarity 92.3%; Pred. No. 1.7e+03;
Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      3 CATGGTGCTCACT 15
DB      5 CATGGTGCTCACT 17

RESULT 11
US-09-866-108-6655
; Sequence 6655, Application US/09866108
; Patent No. US20020048800A1
; GENERAL INFORMATION:
; APPLICANT: GU, Yizhong
; APPLICANT: JI, Yonggang
; APPLICANT: PENN, Sharron G.
; APPLICANT: HANZEL, David K.
; APPLICANT: RANK, David R.
; APPLICANT: CHEN, Wensheng
; APPLICANT: SHANNON, Mark
; TITLE OF INVENTION: MYOSIN-LIKE GENE EXPRESSED IN HUMAN HEART AND MUSCLE
; FILE REFERENCE: AEOMICA-7
; CURRENT APPLICATION NUMBER: US/09/866,108
; CURRENT FILING DATE: 2001-05-25
; PRIOR APPLICATION NUMBER: US 60/207,456
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: GB 24263.6
; PRIOR FILING DATE: 2000-10-04
; PRIOR APPLICATION NUMBER: US 60/236,359
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: PCT/US01/00666
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00667
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00664
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00669
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00665
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00668
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00663
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00662
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; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00661
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00670
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: US 60/234,687
; PRIOR FILING DATE: 2000-09-21
; PRIOR APPLICATION NUMBER: US 60/266,860
; PRIOR FILING DATE: 2001-02-05
; NUMBER OF SEQ ID NOS: 15752
; SOFTWARE: Aecomica Sequence Listing Engine
; SEQ ID NO 6655
; LENGTH: 17
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-866-108-6655

Query Match 76.0%; Score 11.4; DB 10; Length 17;
Best Local Similarity 92.3%; Pred. No. 1.7e+03;
Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 3 CATGGTGCTCACT 15
||||| |||||
Db 4 CATGGGCTCACT 16

RESULT 12
US-09-866-108-6656
; Sequence 6656, Application US/09866108
; Patent No. US20020048800A1
; GENERAL INFORMATION:
; APPLICANT: GU, Yizhong
; APPLICANT: JI, Yonggang
; APPLICANT: PENN, Sharron G.
; APPLICANT: HANZEL, David K.
; APPLICANT: RANK, David R.
; APPLICANT: CHEN, Wensheng
; APPLICANT: SHANNON, Mark
; TITLE OF INVENTION: MYOSIN-LIKE GENE EXPRESSED IN HUMAN HEART AND MUSCLE
; FILE REFERENCE: AEOmica-7
; CURRENT APPLICATION NUMBER: US/09/866,108
; CURRENT FILING DATE: 2001-05-25
; PRIOR APPLICATION NUMBER: US 60/207,456
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: GB 24263.6
; PRIOR FILING DATE: 2000-10-04
; PRIOR APPLICATION NUMBER: US 60/236,359
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: PCT/US01/00666
; PRIOR FILING DATE: 2001-01-30
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; PRIOR APPLICATION NUMBER: PCT/US01/00661
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00670
; PRIOR FILING DATE: 2000-09-21
; PRIOR APPLICATION NUMBER: US 60/266,860
; PRIOR FILING DATE: 2001-02-05
; NUMBER OF SEQ ID NOS: 15752

; SOFTWARE: Aecomica Sequence Listing Engine
; SEQ ID NO 6656
; LENGTH: 17
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-866-108-6656

Query Match 76.0%; Score 11.4; DB 10; Length 17;
Best Local Similarity 92.3%; Pred. No. 1.7e+03;
Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 3 CATGGTGCTCACT 15
||||| |||||
Db 3 CATGGGCTCACT 15

RESULT 13
US-09-866-108-6657
; Sequence 6657, Application US/09866108
; Patent No. US20020048800A1
; GENERAL INFORMATION:
; APPLICANT: GU, Yizhong
; APPLICANT: JI, Yonggang
; APPLICANT: PENN, Sharron G.
; APPLICANT: HANZEL, David K.
; APPLICANT: RANK, David R.
; APPLICANT: CHEN, Wensheng
; APPLICANT: SHANNON, Mark
; TITLE OF INVENTION: MYOSIN-LIKE GENE EXPRESSED IN HUMAN HEART AND MUSCLE
; FILE REFERENCE: AEOmica-7
; CURRENT APPLICATION NUMBER: US/09/866,108
; CURRENT FILING DATE: 2001-05-25
; PRIOR APPLICATION NUMBER: US 60/207,456
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: GB 24263.6
; PRIOR FILING DATE: 2000-10-04
; PRIOR APPLICATION NUMBER: US 60/236,359
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: PCT/US01/00666
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00667
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00664
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00669
; PRIOR FILING DATE: 2001-01-30
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; PRIOR FILING DATE: 2001-01-30
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; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: US 60/234,687
; PRIOR FILING DATE: 2000-09-21
; PRIOR APPLICATION NUMBER: US 60/266,860
; PRIOR FILING DATE: 2001-02-05
; NUMBER OF SEQ ID NOS: 15752
; SOFTWARE: Aecomica Sequence Listing Engine
; SEQ ID NO 6657
; LENGTH: 17
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-866-108-6657

Query Match 76.0%; Score 11.4; DB 10; Length 17;
Best Local Similarity 92.3%; Pred. No. 1.7e+03;
Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 3 CATGGTGCTCACT 15
||||| |||||||
Db 2 CATGGGGCTCACT 14

RESULT 14

US-09-866-108-6658

; Sequence 6658, Application US/09866108

; Patent No. US20020048800A1

; GENERAL INFORMATION:

; APPLICANT: GU, Yizhong

; APPLICANT: JI, Yonggang

; APPLICANT: PENN, Sharron G.

; APPLICANT: HANZEL, David K.

; APPLICANT: RANK, David R.

; APPLICANT: CHEN, Wensheng

; APPLICANT: SHANNON, Mark

; TITLE OF INVENTION: MYOSIN-LIKE GENE EXPRESSED IN HUMAN HEART AND MUSCLE

; FILE REFERENCE: AEOmica-7

; CURRENT APPLICATION NUMBER: US/09/866,108

; CURRENT FILING DATE: 2001-05-25

; PRIOR APPLICATION NUMBER: US 60/207,456

; PRIOR FILING DATE: 2000-05-26

; PRIOR APPLICATION NUMBER: GB 24263.6

; PRIOR FILING DATE: 2000-10-04

; PRIOR APPLICATION NUMBER: US 60/236,359

; PRIOR FILING DATE: 2000-09-27

; PRIOR APPLICATION NUMBER: PCT/US01/00666

; PRIOR FILING DATE: 2001-01-30

; PRIOR APPLICATION NUMBER: PCT/US01/00667

; PRIOR FILING DATE: 2001-01-30

; PRIOR APPLICATION NUMBER: PCT/US01/00664

; PRIOR FILING DATE: 2001-01-30

; PRIOR APPLICATION NUMBER: PCT/US01/00669

; PRIOR FILING DATE: 2001-01-30

; PRIOR APPLICATION NUMBER: PCT/US01/00665

; PRIOR FILING DATE: 2001-01-30

; PRIOR APPLICATION NUMBER: PCT/US01/00668

; PRIOR FILING DATE: 2001-01-30

; PRIOR APPLICATION NUMBER: PCT/US01/00663

; PRIOR FILING DATE: 2001-01-30

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; PRIOR FILING DATE: 2001-01-30

; PRIOR APPLICATION NUMBER: PCT/US01/00661

; PRIOR FILING DATE: 2001-01-30

; PRIOR APPLICATION NUMBER: PCT/US01/00670

; PRIOR FILING DATE: 2001-01-30

; PRIOR APPLICATION NUMBER: US 60/234,687

; PRIOR FILING DATE: 2000-09-21

; PRIOR APPLICATION NUMBER: US 60/266,860

; PRIOR FILING DATE: 2001-02-05

; NUMBER OF SEQ ID NOS: 15752

; SOFTWARE: Aecomica Sequence Listing Engine

; SEQ ID NO 6658

; LENGTH: 17

; TYPE: DNA

; ORGANISM: Homo sapiens

US-09-866-108-6658

Query Match 76.0%; Score 11.4; DB 10; Length 17;
Best Local Similarity 92.3%; Pred. No. 1.7e+03;
Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 3 CATGGTGCTCACT 15
||||| |||||||
Db 1 CATGGGGCTCACT 13

RESULT 15

US-09-866-108-8318/c

; Sequence 8318, Application US/09866108

; Patent No. US20020048800A1

; GENERAL INFORMATION:

; APPLICANT: GU, Yizhong

; APPLICANT: JI, Yonggang

; APPLICANT: PENN, Sharron G.

; APPLICANT: HANZEL, David K.

; APPLICANT: RANK, David R.

; APPLICANT: CHEN, Wensheng

; APPLICANT: SHANNON, Mark

; TITLE OF INVENTION: MYOSIN-LIKE GENE EXPRESSED IN HUMAN HEART AND MUSCLE

; FILE REFERENCE: AEOmica-7

; CURRENT APPLICATION NUMBER: US/09/866,108

; CURRENT FILING DATE: 2001-05-25

; PRIOR APPLICATION NUMBER: US 60/207,456

; PRIOR FILING DATE: 2000-05-26

; PRIOR APPLICATION NUMBER: GB 24263.6

; PRIOR FILING DATE: 2000-10-04

; PRIOR APPLICATION NUMBER: US 60/236,359

; PRIOR FILING DATE: 2000-09-27

; PRIOR APPLICATION NUMBER: PCT/US01/00666

; PRIOR FILING DATE: 2001-01-30

; PRIOR APPLICATION NUMBER: PCT/US01/00667

; PRIOR FILING DATE: 2001-01-30

; PRIOR APPLICATION NUMBER: PCT/US01/00664

; PRIOR FILING DATE: 2001-01-30

; PRIOR APPLICATION NUMBER: PCT/US01/00669

; PRIOR FILING DATE: 2001-01-30

; PRIOR APPLICATION NUMBER: PCT/US01/00665

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; PRIOR APPLICATION NUMBER: PCT/US01/00668

; PRIOR FILING DATE: 2001-01-30

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; PRIOR APPLICATION NUMBER: PCT/US01/00661

; PRIOR FILING DATE: 2001-01-30

; PRIOR APPLICATION NUMBER: PCT/US01/00670

; PRIOR FILING DATE: 2001-01-30

; PRIOR APPLICATION NUMBER: US 60/234,687

; PRIOR FILING DATE: 2000-09-21

; PRIOR APPLICATION NUMBER: US 60/266,860

; PRIOR FILING DATE: 2001-02-05

; NUMBER OF SEQ ID NOS: 15752

; SOFTWARE: Aecomica Sequence Listing Engine

; SEQ ID NO 8318

; LENGTH: 17

; TYPE: DNA

; ORGANISM: Homo sapiens

US-09-866-108-8318

Query Match 76.0%; Score 11.4; DB 10; Length 17;
Best Local Similarity 92.3%; Pred. No. 1.7e+03;
Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 TCCATGGTGCTCA 13
||||| |||||||
Db 17 TCCATGGTGCTCA 5

Search completed: November 21, 2002, 07:59:02
Job time : 83 secs

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OM nucleic - nucleic search, using sw model

Run on: November 21, 2002, 03:45:54 ; Search time 3161 Seconds
(without alignments)
138.103 Million cell updates/sec

Title: US-09-716-320-3

Perfect score: 15

Sequence: 1 tccatggtgctcaact 15

Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 2054640 seqs, 14551402878 residues

Total number of hits satisfying chosen parameters: 995600

Minimum DB seq length: 0

Maximum DB seq length: 100

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database :

GenEmbl.*

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- 2: gb.htg.*
- 3: gb.in.*
- 4: gb.om.*
- 5: gb.ov.*
- 6: gb.pat.*
- 7: gb.ph.*
- 8: gb.pl.*
- 9: gb.pr.*
- 10: gb.ro.*
- 11: gb.sts.*
- 12: gb.sy.*
- 13: gb.vi.*
- 14: gb.vl.*
- 15: em.ba.*
- 16: em.fun.*
- 17: em.hum.*
- 18: em.in.*
- 19: em.mu.*
- 20: em.om.*
- 21: em.or.*
- 22: em.ov.*
- 23: em.pat.*
- 24: em.ph.*
- 25: em.pl.*
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- 27: em.sts.*
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- 29: em.vl.*
- 30: em.htg_hum.*
- 31: em.htg_inv.*
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- 40: em.htgo_mus.*
- 41: em.htgo_other.*

Pred. No. is the number of results predicted by chance to have a

score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

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2	15	100.0	19	6	AX355038	Sequence
3	15	100.0	24	6	I34918	Sequence 4
c	14	93.3	15	6	AR071406	Sequence
4	14	93.3	51	6	AX159179	Sequence
5	14	93.3	51	6	AX159179	Sequence
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9	13	86.7	16	6	A88177	Sequence 32
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11	13	86.7	20	6	AX137074	Sequence
c	12	80.0	22	6	AX164704	Sequence
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13	13	86.7	26	6	AR122156	Sequence
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16	12.4	82.7	50	6	AX161043	Sequence
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28	11.8	78.7	19	6	AX375647	Sequence
c	29	11.8	78.7	50	AR077265	Sequence
29	11.8	78.7	50	6	AR077265	Sequence
c	30	11.8	78.7	50	AX199506	Sequence
30	11.8	78.7	50	6	AX199506	Sequence
c	31	11.8	78.7	51	AX199505	Sequence
31	11.8	78.7	51	6	AX199505	Sequence
c	32	11.8	78.7	54	AR188935	Sequence
32	11.8	78.7	54	6	AR188935	Sequence
c	33	11.8	78.7	54	AR048884	Sequence
33	11.8	78.7	54	6	AR048884	Sequence
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c	35	11.8	78.7	76	AX389427	Sequence
35	11.8	78.7	76	6	AX389427	Sequence
c	36	11.8	78.7	93	AF172205	Nycticebu
36	11.8	78.7	93	9	AF172205	Nycticebu
c	37	11.8	78.7	93	AF172208	Eulemur m
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c	38	11.8	78.7	93	AF172209	Perodicti
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42	11.8	78.7	100	6	AR130583	Sequence
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44	11.4	76.0	15	6	AR180130	Sequence
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ALIGNMENTS

RESULT 1
AX103821
LOCUS
DEFINITION
ACCESSION
VERSION
KEYWORDS
SOURCE
ORGANISM
REFERENCE
AUTHORS
TITLE
JOURNAL

AX103821
Sequence 13 from Patent WO0122972
AX103821
AX103821.1 GI:13920018
synthetic construct.
synthetic construct
artificial sequences.
1 (bases 1 to 19)
Krieg A.M., Schetter, C. and Volmer, J.C.
Immunostimulatory nucleic acids
Patent: WO 0122972-A 18 APR 2001
UNIVERSITY OF IOWA RESEARCH FOUNDATION (US) ; Coley Pharmaceutical

19 bp
DNA
linear
PAT 30-APR-2001

GmbH (DE)
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Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Db 4 TCCATGGTGCTCACT 18
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RESULT 2
AX355038
LOCUS AX355038 19 bp DNA linear PAT 06-FEB-2002
DEFINITION Sequence 66 from Patent WO0197843.
ACCESSION AX355038
VERSION AX355038.1 GI:18619705
KEYWORDS synthetic construct.
SOURCE synthetic construct.
ORGANISM artificial sequences.
REFERENCE 1
AUTHORS Weiner, G. and Hartmann, G.
TITLE Methods for enhancing antibody-induced cell lysis and treating cancer.
JOURNAL Patent: WO 0197843-A 66 27-DEC-2001;
UNIVERSITY OF IOWA RESEARCH FOUNDATION (US)
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source
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/organism="synthetic construct"
/db_xref="taxon:32630"
/note="Synthetic oligonucleotide-phosphorothioate backbone"

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Best Local Similarity 100.0%; Pred. No. 1.6e+02;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Db 4 TCCATGGTGCTCACT 18
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RESULT 3
I34918/c
LOCUS I34918 24 bp DNA linear PAT 13-MAY-1997
DEFINITION Sequence 4 from patent US 5599704.
ACCESSION I34918
VERSION I34918.1 GI:2087886
KEYWORDS
SOURCE Unknown.
ORGANISM Unclassified.
REFERENCE 1 (bases 1 to 24)
AUTHORS Thompson, J.D. and Draper, K.G.
TITLE ErbB2/neu targeted fibrozymes
JOURNAL Patent: US 5599704-A 4 04-FEB-1997;
FEATURES
source
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BASE COUNT 6 a 7 c 8 g 3 t
ORIGIN

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Best Local Similarity 100.0%; Pred. No. 1.6e+02;

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RESULT 4
AR071406
LOCUS AR071406 15 bp DNA linear PAT 18-FEB-2000
DEFINITION Sequence 1 from patent US 5910583.
ACCESSION AR071406
VERSION AR071406.1 GI:7222294
KEYWORDS
SOURCE Unknown.
ORGANISM Unknown.
REFERENCE 1 (bases 1 to 15)
AUTHORS Marks, J.R., Vaughn, J.P. and Inglehart, J.D.
TITLE Antisense oligonucleotides against ERBB-2
JOURNAL Patent: US 5910583-A 1 08-JUN-1999;
FEATURES
source
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/organism="unknown"

BASE COUNT 2 a 6 c 4 t
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Db 2 TCCATGGTGCTCAC 15
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AX159179
LOCUS AX159179 51 bp DNA linear PAT 22-JUN-2001
DEFINITION Sequence 2507 from Patent WO0140521.
ACCESSION AX159179
VERSION AX159179.1 GI:14540510
KEYWORDS human.
SOURCE Homo sapiens
ORGANISM Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE 1 (bases 1 to 51)
AUTHORS Shimkets, R.A. and Leach, M.
TITLE Nucleic acids containing single nucleotide polymorphisms and methods of use thereof
JOURNAL Patent: WO 0140521-A 2507 07-JUN-2001;
CURAGEN CORPORATION (US)
FEATURES
source
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/organism="Homo sapiens"
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misc_feature 26
/note="1 of 2 allelic variants (2508 is other entry)"

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RESULT 6

A45228
LOCUS 14 bp DNA linear PAT 07-MAR-1997
DEFINITION Sequence 105 from Patent WO9517507.
ACCESSION A45228
VERSION A45228.1 GI:2299723
KEYWORDS
SOURCE unclassified.
ORGANISM unclassified.
REFERENCE 1 (bases 1 to 14)
AUTHORS Brysch,W., Schlingensiepen,K., Schlingensiepen,R. and Schlingensiepen,G.
TITLE ANTISENSE NUCLEIC ACIDS FOR THE PREVENTION AND TREATMENT OF DISORDERS IN WHICH EXPRESSION OF C-erbB PLAYS A ROLE
JOURNAL Patent: WO 9517507-A 105 29-JUN-1995;
COMMENT BIOGNOSTIK GES (DE)
FEATURES Other publication AU 1313095 950710.
source Location/Qualifiers
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BASE COUNT 2 a 4 c 4 g 4 t
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Best Local Similarity 100.0%; Pred. No. 3.3e+03;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Db 1 CATGGTGCTCACT 13

RESULT 7
LOCUS A88989 14 bp DNA linear PAT 22-JAN-2000
DEFINITION Sequence 1137 from Patent WO9833904.
ACCESSION A88989
VERSION A88989.1 GI:6737559
KEYWORDS
SOURCE unclassified.
ORGANISM unclassified.
REFERENCE 1 (bases 1 to 14)
AUTHORS Brysch,W. and Schlingensiepen,K.
TITLE AN ANTISENSE OLIGONUCLEOTIDE PREPARATION METHOD
JOURNAL Patent: WO 9833904-A 1137 06-AUG-1998;
FEATURES BIOGNOSTIK GES (DE); BRYSCH,WOLFGANG (DE)
source Location/Qualifiers
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Db 1 CATGGTGCTCACT 13

RESULT 8
LOCUS AR202871 14 bp DNA linear PAT 20-JUN-2002
DEFINITION Sequence 105 from patent US 6365345.
ACCESSION AR202871
VERSION AR202871.1 GI:21499111
KEYWORDS
SOURCE Unknown.
ORGANISM Unknown.

Unclassified.
REFERENCE 1 (bases 1 to 14)
AUTHORS Brysch,W., Schlingensiepen,K.-H., Schlingensiepen,R. and Schlingensiepen,G.-F.
TITLE Antisense nucleic acids for the prevention and treatment of disorders in which expression of c-erbB plays a role
JOURNAL Patent: US 6365345-A 105 02-APR-2002;
FEATURES Location/Qualifiers
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BASE COUNT 2 a 4 c 4 g 4 t
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Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Db 1 CATGGTGCTCACT 13

RESULT 9
LOCUS A88177 16 bp DNA linear PAT 22-JAN-2000
DEFINITION Sequence 325 from Patent WO9833904.
ACCESSION A88177
VERSION A88177.1 GI:6736747
KEYWORDS
SOURCE unclassified.
ORGANISM unclassified.
REFERENCE 1 (bases 1 to 16)
AUTHORS Brysch,W. and Schlingensiepen,K.
TITLE AN ANTISENSE OLIGONUCLEOTIDE PREPARATION METHOD
JOURNAL Patent: WO 9833904-A 325 06-AUG-1998;
FEATURES BIOGNOSTIK GES (DE); BRYSCH,WOLFGANG (DE)
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BASE COUNT 2 a 5 c 5 g 4 t
ORIGIN

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Db 1 CATGGTGCTCACT 13

RESULT 10
LOCUS A90144 16 bp DNA linear PAT 22-JAN-2000
DEFINITION Sequence 325 from Patent EP0854579.
ACCESSION A90144
VERSION A90144.1 GI:6738658
KEYWORDS
SOURCE unclassified.
ORGANISM unclassified.
REFERENCE 1 (bases 1 to 16)
AUTHORS Brysch,W.D. and Schlingensiepen,K.D.
TITLE An antisense oligonucleotide preparation method
JOURNAL Patent: EP 0856579-A 325 05-AUG-1998;
FEATURES BIOGNOSTIK GES (DE)
source Location/Qualifiers
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/organism="unidentified"
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BASE COUNT 2 a 5 c 5 g 4 t
ORIGIN

ORIGIN

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Best Local Similarity 100.0%; Pred. No. 3.3e+03;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 3 CATGGTGCTCACT 15
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Db 1 CATGGTGCTCACT 13

RESULT 11

AR137074
LOCUS AR137074 20 bp DNA linear PAT 16-JUN-2001

DEFINITION Sequence 3 from patent US 6162965;
ACCESSION AR137074
VERSION AR137074.1 GI:14478324

KEYWORDS
SOURCE
ORGANISM

REFERENCE 1 (bases 1 to 20)

AUTHORS Jensen G.

TITLE Plant transformation methods

JOURNAL Patent: US 6162965-A 3 19-DEC-2000;

FEATURES
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BASE COUNT 4 a 4 c 7 g 5 t

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Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Db 6 TCCATGGTGCTCA 18

RESULT 12

AX164704/c
LOCUS AX164704 20 bp DNA linear PAT 22-JUN-2001

DEFINITION Sequence 9 from Patent W00136644.

ACCESSION AX164704

VERSION AX164704.1 GI:14545596

KEYWORDS
SOURCE
ORGANISM

REFERENCE 1 (bases 1 to 20)

AUTHORS Rastelli, L., Lewin, D., Taillon, B. and Andrew, D.P.

TITLE Wnt-regulated cytokine-like polypeptide and nucleic acids encoding same

JOURNAL Patent: WO 0136644-A 9 25-MAY-2001;

FEATURES
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Location/Qualifiers
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BASE COUNT 7 a 6 c 5 g 2 t

ORIGIN

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RESULT 13

AR122156
LOCUS AR122156 26 bp DNA linear PAT 16-MAY-2001

DEFINITION Sequence 18 from patent US 6165712.

ACCESSION AR122156

VERSION AR122156.1 GI:14106473

KEYWORDS
SOURCE
ORGANISM

REFERENCE 1 (bases 1 to 26)

AUTHORS Foulkes, J. Gordon., Leichter, F. E., Pieler, C., Stephenson, J. R. and Case, C. C.

TITLE Methods of transcriptionally modulating expression of viral genes and genes useful for production of proteins

JOURNAL Patent: US 6165712-A 18 26-DEC-2000;

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source
1. .26
/organism="unknown"

BASE COUNT 2 a 11 c 8 g 5 t

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Db 1 CATGGTGCTCACT 13

RESULT 14

AR142598
LOCUS AR142598 26 bp DNA linear PAT 08-AUG-2001

DEFINITION Sequence 6 from patent US 6203976.

ACCESSION AR142598

VERSION AR142598.1 GI:15103884

KEYWORDS
SOURCE
ORGANISM

REFERENCE 1 (bases 1 to 26)

AUTHORS Foulkes, J. Gordon., Leichter, F. E., Pieler, C. and Stephenson, J. R.

TITLE Methods of preparing compositions comprising chemicals capable of transcriptional modulation

JOURNAL Patent: US 6203976-A 6 20-MAR-2001;

FEATURES
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BASE COUNT 2 a 11 c 8 g 5 t

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Db 1 CATGGTGCTCACT 13

RESULT 15

AR054584/c
LOCUS AR054584 22 bp DNA linear PAT 29-SEP-1999

DEFINITION Sequence 5 from patent US 5837447.

ACCESSION AR054584

VERSION AR054584.1 GI:5980161

KEYWORDS
SOURCE
ORGANISM

REFERENCE 1 (bases 1 to 22)

AUTHORS Gorski, J.

TITLE Monitoring an immune response by analysis of amplified immunoglobulin or T-cell-receptor nucleic acid

JOURNAL Patent: US 5837447-A 5 17-NOV-1998;

FEATURES Location/Qualifiers

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Best Local Similarity 92.9%; Pred. NO. 8.2e+03;

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Db 21 TCCAGGTCTCAC 8

Search completed: November 21, 2002, 06:15:54

Job time : 3163 secs

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